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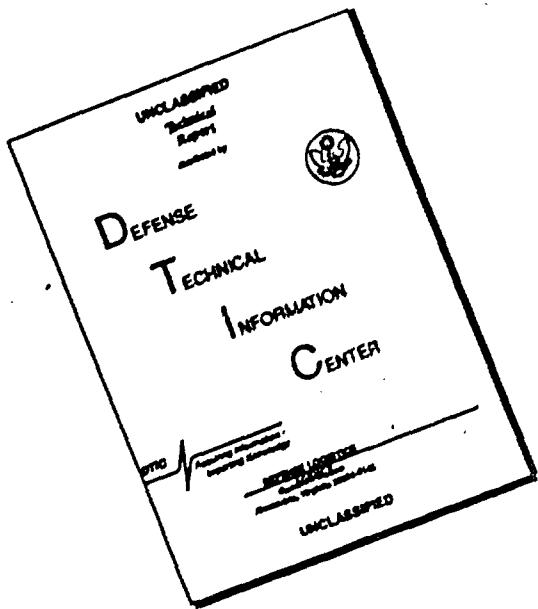
SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION, ALEXANDRIA, VIRGINIA



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63-4-5

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SEARCHED BY JMC
NOV 14 1963

GROUND EFFECT MACHINE
PRESSURE DATA

Static tests

University of Wichita
Department of Engineering Research
WICHITA, KANSAS

414236

DDC

AUG 22 1963

TABULATED PRESSURE DATA
FOR A SERIES OF CIRCULAR, ANNULAR JET
GROUND EFFECT MACHINE MODELS

0.05 0°
0.10 0°
0.10 30°
0.10 60°
Static Case

Engineering Report 352-8

Prepared for
Office of Naval Research
Air Branch
Washington, D.C.
under
Contract NONR 201(3)

June 1962
University of Wichita
Department of Engineering Research
Wichita, Kansas

INTRODUCTION

This volume is one of six, presenting tabulated pressure data for a series of circular, annular jet ground effect machines, which were tested at the Department of Engineering Research, University of Wichita, Wichita, Kansas. The pressures listed are the differential above and below atmospheric in pounds per sq. ft. A heading on top of each page identifies the test point presented and provides auxiliary information which may be useful in interpreting the columnar data. From left to right the heading contains:

Run No., t/D , θ , h/D , q , Seq. No., α , P_M/P_o , B.P., ρ .

where:

Run No. the sequential number corresponding to a test point.

t/D model slot to diameter ratio.

θ model convergence angle, positive inboard.

h/D model height to diameter ratio.

q wind tunnel dynamic pressure, lb/ft^2 .

Sequence No. see: Nomenclature and Explanation of Tabulated Data

α model angle of attack.

P_M/P_o model pressure ratio.

B.P. barometric pressure, lb/ft^2 .

ρ static air density, slugs/ ft^3 .

The six volumes are accompanied by a special volume, Nomenclature and Explanation of Tabulated Data, which contains all the information necessary to find the pressure tab location for a data point and vice versa.

1677 .05 0° .50 0 10.0 +2.5° 1.011 2031.8 .002243

a) 1 - .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 + 0	52 + .4	2 + .1	52 + .5	2 - 3.2
3 + 0	53 + .2	3 + .1	53 + .1	3 - 5.1
4 + 0.	54 + .7	4 + .1	54 + .2	4 - 4.3
5 + 0	55 + .9	5 + .1	55 + .3	5 - 3.0
6 + 0	56 + .8	6 + .1	56 + .3	6 + .4
7 + 0	57 + .2	7 + .1	57 - 1.1	7 + .1
8 + 0	58 - .2	8 + .1	58 - .9	8 + 4.2
9 + 0	59 - .2	9 - .7	59 - .4	9 + 8.6
10 - 3.5	60 + .3	10 + .4	60 + .5	10 + 10.0
11 + 0	61 + .4	11 + .1	61 + .6	11 - .6
12 + 0	62 + .5	12 + .1	62 + .8	12 - 2.8
13 + 0	63 + .5	13 + .1	63 + 1.5	13 - 2.9
14 + 0	64 + .4	14 + 1.2	64 + 1.1	14 - 2.4
15 + 0	65 + .4	15 + 0	65 + 1.1	15 + .4
16 + 0	66 + .2	16 + 0	66 + 1.5	16 - .4
17 + 0	67 + .2	17 + 0	67 + 1.6	17 + .9
18 + 0	68 - .2	18 + 0	68 + 2.4	18 + 6.9
19 + 0	69 + .2	19 + 0	69 + 1.3	19 + 10.3
20 + 0	70 - 1.2	20 + 0	70 + .6	20 + .2
21 + 0	71 - 1.2	21 + 0	71 + .8	21 - 2.1
22 + 0	72 - 1.2	22 + 0	72 + .9	22 - 3.9
23 + 0	73 + .3	23 + 0	73 + .9	23 - 3.9
24 + 0	74 - 4	24 + 0	74 + .2	24 - 3.6
25 + 0	75 - 1.9	25 + .1	75 + .2	25 - 2.5
26 + 0	76 - 1.4	26 + .1	76 + .2	26 - 2.2
27 + 0	77 + .3	27 + .1	77 + .7	27 - 2.2
28 + 0°	78 + .2	28 + .1	78 + 1.4	28 - .7
29 + 0	79 + .2	29 + .1	79 + 2.1	29 + 3.3
30 + 0	80 + .4	30 + .1	80 + 2.3	30 + .2
31 + 0	81 + .4	31 + .1	81 + 2.5	
32 + 0	82 + .9	32 + .1	82 + 2.6	Seq. 5
33 + 0	83 + .8	33 + .1	83 + 2.4	
34 + 0	84 + .7	34 + .1	84 + 1.9	
35 + 0	85 + 1.0	35 + .1	85 + 1.9	
36 + 0	86 + .9	36 + .1	86 + 1.1	
37 + 0	87 + .9	37 + .1	87 + .2	
38 + 0	88 + .2	38 + .1	88 + .8	
39 + .2	89 + .2	39 + .6	89 + .2	
40 + 0	90 + 1.2	40 + 0	90 + .6	
41 + 0	91 + 1.1	41 + 0	91 + .9	
42 + 0	92 - .8	42 + 0	92 + 1.1	
43 + 0	93 + .4	43 + 0	93 + .3	
44 + 0	94 + .5	44 + 0	94 + .2	
45 + 0	95 + .3	45 + 0	95 + .2	
46 + 0	96 + .3	46 + 0	96 + .4	
47 + 0	97 + .3	47 + 0	97 + .6	
48 + 0	98 - .4	48 + 0	98 + .5	
49 + 0	99 - .5	49 + 0	99 + .8	
50 + 0	100 + .2	50 + 0	100 + .2	

1678 .05 0° .50 0 10.0 0° 1.011 2031.8 .002243

a) 1 + 0.0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .3
2 + .1	52 + .2	2 + 0	52 + .6	2 - 1.0
3 + .1	53 + .2	3 - .1	53 + .3	3 - 1.8
4 + .1	54 + .2	4 + 0	54 + .6	4 - 1.8
5 + .1	55 + .2	5 + 0	55 + .9	5 - 1.6
6 + .1	56 + .1	6 + 0	56 + .7	6 + .5
7 + .1	57 + .1	7 + 0	57 + .6	7 + .2
8 + .1	58 - 1.0	8 + 0	58 + .5	8 + 2.5
9 + .1	59 - 1.3	9 + 0	59 + .7	9 + 7.2
10 + .1	60 + .3	10 + 0	60 + 1.2	10 + 9.3
11 + .1	61 + .4	11 + 0	61 + .9	11 + .1
12 + .1	62 + .0	12 + .1	62 + 1.0	12 - .8
13 + .1	63 + .6	13 + .1	63 + 1.5	13 - 1.1
14 + .1	64 + .5	14 + .2	64 + .8	14 - 1.1
15 + .1	65 + .5	15 + .1	65 + .9	15 + .5
16 + .1	66 + .6	16 + 0	66 + 1.0	16 + .1
17 + .1	67 + .2	17 + 0	67 + 1.4	17 + .3
18 + .1	68 + .4	18 + 0	68 + 1.9	18 + 5.1
19 + .1	69 + .5	19 + 0	69 + 1.5	19 + 9.7
20 + .1	70 + .9	20 + 0	70 + 1.2	20 + .1
21 + .1	71 + .3	21 + 0	71 + 1.1	21 + 2.7
22 + .1	72 + .8	22 + 0	72 + .6	22 + 4.8
23 + .1	73 + .2	23 + 0	73 + .6	23 + 4.3
24 + .1	74 + .2	24 + .5	74 + .3	24 + 3.2
25 + .1	75 + .7	25 + 0	75 + .5	25 + .1
26 + .1	76 + .7	26 + 0	76 + .6	26 + 2.4
27 + .1	77 + .7	27 + 0	77 + .9	27 + 1.2
28 + .1	78 + .8	28 + 0	78 + 1.0	28 + 2.9
29 + .1	79 + .9	29 + 0	79 + 1.2	29 + 5.9
30 + .1	80 + .9	30 + 0	80 + 1.2	30 + .1
31 + .1	81 + 1.0	31 + 0	81 + .9	
32 + .1	82 + 1.2	32 + 0	82 + .9	Seq. 5
33 + .1	83 + 1.3	33 + 0	83 + .6	
34 + .1	84 + .3	34 + 0	84 + .6	
35 + .1	85 + .9	35 + 0	85 + .8	
36 + .1	86 + .9	36 + 0	86 + 1.0	
37 + .1	87 + .9	37 + 0	87 + 1.4	
38 + .1	88 + .9	38 + .2	88 + 1.0	
39 + .5	89 + 1.0	39 + .7	89 + 1.1	
40 + .1	90 + .4	40 + 0	90 + .3	
41 + .1	91 + .2	41 + 0	91 + .6	
42 + 0	92 + .4	42 + 0	92 + 1.1	
43 + 0	93 + .4	43 - .1	93 + 1.3	
44 + 0	94 + .2	44 - .1	94 + .2	
45 + 0	95 + .1	45 - .1	95 + .2	
46 + 0	96 + .1	46 - .1	96 + .2	
47 + 0	97 + .1	47 - .1	97 + .4	
48 + 0	98 + .7	48 - .1	98 + .6	
49 + Q	99 + .7	49 - .1	99 + .6	
50 + 0	100 + .3	50 - .1	100 + .1	

1679	.05	0°	.50	0	10.0	-2.5°	1.010	2031.8	.002243
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a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + .7	2 + 0	52 + .5	2 + .2
3 + 0	53 + .2	3 + 0	53 + .2	3 - 1.4
4 + 0	54 + .2	4 + 0	54 + .2	4 - 1.3
5 + 0	55 + .2	5 + 0	55 + .2	5 - 1.2
6 + 0	56 + .2	6 + 0	56 + .2	6 + .3
7 + 0	57 + .2	7 + 0	57 + 1.2	7 + .3
8 + 0	58 + 1.2	8 + 0	58 + .8	8 + .6
9 + 0	59 + 1.2	9 + 0	59 + .3	9 + 4.3
10 + 0	60 + .3	10 + 0	60 + .7	10 + 6.1
11 + 0	61 + .3	11 + 0	61 + 1.0	11 - 1.3
12 + 0	62 + .3	12 + 0	62 + 1.5	12 - 3.3
13 + 0	63 + .3	13 + 0	63 + 1.9	13 - 3.3
14 + 0	64 + .4	14 + 0	64 + .5	14 - 2.6
15 + 0	65 + .4	15 + 0	65 + .7	15 + .2
16 + 0	66 + .4	16 + 0	66 + .8	16 - .7
17 + 0	67 + .2	17 + 0	67 + .9	17 + .8
18 + 0	68 + .2	18 + 0	68 + 1.4	18 + 6.4
19 + 0	69 + .3	19 + 0	69 + 1.3	19 + 9.3
20 + 0	70 + .4	20 + 0	70 + .4	20 + .2
21 + 0	71 + .2	21 + 0	71 + .6	21 - 4.1
22 + 0	72 + .7	22 + 0	72 + .5	22 - 5.2
23 + 0	73 + .2	23 + 0	73 + .5	23 - 5.1
24 + 0	74 + .3	24 + .5	74 + .2	24 - 3.9
25 + 0	75 + .3	25 + 0	75 + .7	25 + .2
26 + .1	76 + .3	26 + 0	76 + .7	26 - 1.8
27 + .1	77 + .6	27 + 0	77 + .2	27 + 1.4
28 + .1	78 + 1.4	28 + 0	78 + .4	28 + 3.8
29 + .1	79 + 1.5	29 + 0	79 + .6	29 + 6.0
30 + .1	80 + 1.6	30 + 0	80 + .7	30 + .1
31 + .1	81 + 1.3	31 + .1	81 + .9	
32 + .1	82 + 1.3	32 + 0	82 + .9	Seq. 5
33 + .1	83 + 1.4	33 + 0	83 + .8	
34 + .1	84 + .2	34 + 0	84 + .8	
35 + .1	85 + .5	35 + 0	85 + .9	
36 + .1	86 + .6	36 + 0	86 + .8	
37 + .1	87 + .7	37 + 0	87 + .8	
38 + .1	88 + .6	38 + 0	88 + 1.1	
39 + 1.0	89 + .4	39 + .3	89 + 1.3	
40 - .1	90 + .4	40 + 0	90 + .4	
41 + 0	91 + .2	41 + 0	91 + .4	
42 + 0	92 + .6	42 + 0	92 + .5	
43 + 0	93 + .5	43 + 0	93 + 1.2	
44 + 0	94 + .2	44 + 0	94 + .3	
45 + .1	95 + .2	45 + 0	95 + .2	
46 + .1	96 + .2	46 + 0	96 + .2	
47 + .1	97 + .3	47 + 0	97 + .2	
48 + .1	98 + 1.0	48 + 0	98 + .2	
49 + .1	99 + .7	49 + 0	99 + .3	
50 + .1	100 + .3	50 + 0	100 + .2	

1698 .05 0° .50 0 10.0 -2.5° 1.048 2031.8 ,002173

a) 1 + .1	51 + .1	b) 1 + .1	51 + .1	c) 1 - .1
2 + .2	52 + .9	2 + .1	52 + .7	2 - 2.8
3 + .2	53 + .8	3 + .1	53 + .2	3 - 6.8
4 + .2	54 + .8	4 + .1	54 + .6	4 - 7.2
5 + .2	55 + 1.0	5 + .1	55 + .9	5 - 5.5
6 + .2	56 + .2	6 + .1	56 + .2	6 - .2
7 + .2	57 + 1.5	7 + .1	57 + .7	7 - 4.9
8 + .2	58 + .8	8 + .1	58 + 2.0	8 - 2.7
9 + .3	59 + 2.7	9 + .1	59 + 3.7	9 + 12.1
10 + 4.3	60 + .2	10 + .1	60 + 5.3	10 + 28.1
11 + .3	61 + 2.3	11 + .7	61 + 7.2	11 + 12.8
12 + .4	62 + 1.8	12 + 0	62 + 7.8	12 + 17.7
13 + .4	63 + 1.9	13 + .2	63 + 7.9	13 + 19.6
14 + .4	64 + .1	14 + 1.9	64 + 3.0	14 + 13.8
15 + .4	65 + 2.5	15 + 0	65 + 3.8	15 + .4
16 + .5	66 + 1.7	16 + .1	66 + 5.0	16 + 10.4
17 + .5	67 + 1.1	17 + .1	67 + 6.2	17 + 6.2
18 + .5	68 + .1	18 + .2	68 + 6.9	18 + 29.8
19 + .6	69 + 2.5	19 + .2	69 + 7.1	19 + 43.2
20 + .6	70 + 2.2	20 + .1	70 + 4.6	20 + .1
21 + .6	71 + .2	21 + 0	71 + 4.7	21 + 16.8
22 + .6	72 + .1	22 + 0	72 + 3.9	22 + 24.0
23 + .6	73 + 2.4	23 + 1.1	73 + 3.8	23 + 22.5
24 + .6	74 + 3.7	24 + 4.7	74 + .1	24 + 13.6
25 + .6	75 + 3.3	25 + 0	75 + .1	25 + 2.0
26 + .6	76 + 3.1	26 + 0	76 + .1	26 + 4.6
27 + .2	77 + 3.6	27 + .1	77 + 1.0	27 + 14.0
28 + .4	78 + 5.1	28 + .5	78 + 1.5	28 + 22.5
29 + .3	79 + 5.5	29 + 1.6	79 + 2.2	29 + 30.9
30 + .5	80 + 5.4	30 + 2.6	80 + 2.7	30 + .1
31 + 0	81 + 5.3	31 + 0	81 + 3.6	
32 + .1	82 + 5.2	32 + 0	82 + 4.1	Seq. 5
33 + .1	83 + 5.6	33 + 0	83 + 4.2	
34 + .1	84 + 1.1	34 + 0	84 + 5.5	
35 + .2	85 + 2.7	35 + 0	85 + 5.6	
36 + .2	86 + 3.1	36 + .6	86 + 5.4	
37 + .5	87 + 4.4	37 + .1	87 + 5.3	
38 + .1	88 + 1.4	38 + .7	88 + 7.1	
39 + .2	89 + .1	39 + 0	89 + 8.4	
40 + .2	90 + .1	40 + 0	90 + 4.7	
41 + .3	91 + 2.1	41 + 0	91 + 4.5	
42 + .1	92 + .1	42 + 0	92 + 5.5	
43 + .2	93 + 3.9	43 + 0	93 + 8.2	
44 + .3	94 + 3.9	44 + 0	94 + 5.7	
45 + .3	95 + 3.9	45 + 0	95 + 3.2	
46 + .3	96 + 4.2	46 + 0	96 + 3.3	
47 + .1	97 + 3.0	47 + 0	97 + 2.4	
48 + .1	98 + .1	48 + 0	98 + 2.8	
49 + .2	99 + .1	49 + 0	99 + 3.8	
50 + .2	100 + .1	50 + 0	100 + ..1	

1699	.05	0°	.50	0	10.0	0°	1.048	2031.8	.002173
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a) 1 - .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 - .1	52 + 1.6	2 + 0	52 + .5	2 - 10.4
3 - .1	53 + .8	3 + 0	53 + .2	3 - 16.5
4 - .1	54 + 4.4	4 + 0	54 + 4.5	4 - 15.4
5 - .1	55 + 2.1	5 + 0	55 + 4.8	5 - 9.4
6 - .1	56 + 2.1	6 + .4	56 + 2.4	6 + 2.7
7 - .1	57 + 3.4	7 + .6	57 + 3.8	7 - 3.8
8 - .1	58 + 2.1	8 + .6	58 + 3.6	8 + 11.8
9 - .1	59 + .1	9 + 1.8	59 + 3.1	9 + 26.1
10 + .6	60 + 1.1	10 + 1.1	60 + 2.7	10 + 33.4
11 - .1	61 + 4.1	11 + 4.9	61 + 1.8	11 - 4.7
12 - .1	62 + 3.1	12 + 0	62 + 2.3	12 - 8.9
13 - .1	63 + 1.2	13 + .4	63 + 2.9	13 - 10.6
14 - .1	64 + 2.1	14 + 3.8	64 + 3.0	14 - 9.2
15 - .1	65 + 4.2	15 + 0	65 + 4.0	15 + .7
16 - .1	66 + 2.7	16 + .1	66 + 5.4	16 - 6.1
17 - .1	67 + .2	17 + .1	67 + 6.4	17 - 1.6
18 - .1	68 + 1.7	18 + .1	68 + 7.3	18 + 18.3
19 - .1	69 + 4.2	19 + .2	69 + 6.7	19 + 38.6
20 - .1	70 + 1.8	20 + .2	70 + 4.8	20 + .2
21 - .1	71 + .1	21 + .2	71 + 4.8	21 - 10.8
22 - .1	72 + 1.0	22 + .2	72 + 3.8	22 - 17.1
23 - .1	73 + 3.7	23 + .4	73 + 3.3	23 - 16.6
24 - .1	74 + 2.5	24 + 3.5	74 + 3.4	24 - 10.7
25 - .1	75 + .1	25 + 0	75 + 4.1	25 + 1.6
26 + 1.4	76 + 1.3	26 + 0	76 + 5.4	26 - 7.4
27 - .1	77 + 4.6	27 + 0	77 + 6.8	27 + 3.7
28 - .1	78 + 4.3	28 + .1	78 + 6.4	28 + 15.2
29 - .1	79 + 1.8	29 + .1	79 + 6.4	29 + 28.6
30 - .1	80 + 2.5	30 + .3	80 + 5.0	30 + .1
31 - .1	81 + 5.0	31 + .1	81 + 3.9	
32 - .1	82 + 6.1	32 + 0	82 + 4.0	Seq. 5
33 - .1	83 + 7.3	33 + 0	83 + 3.1	
34 - .1	84 + 3.0	34 + 0	84 + 3.1	
35 - .1	85 + 5.1	35 + 0	85 + 4.0	
36 - .1	86 + 4.8	36 + 0	86 + 4.5	
37 - .1	87 + 5.6	37 + .1	87 + 6.9	
38 - .1	88 + 4.1	38 + .8	88 + 2.8	
39 - .1	89 + 7.5	39 + 1.2	89 + 4.8	
40 - .1	90 + 6.5	40 + 0	90 + 2.7	
41 - .1	91 + 3.9	41 + 0	91 + 3.9	
42 - .1	92 + .3	42 + 0	92 + 6.9	
43 - .1	93 + 5.0	43 + 0	93 + 5.6	
44 - .1	94 + 3.5	44 + 0	94 + 2.7	
45 - .1	95 + 4.0	45 + 0	95 + 2.3	
46 - .1	96 + 4.8	46 + 0	96 + 3.3	
47 - .1	97 + 3.1	47 + 0	97 + 3.6	
48 - .1	98 + .1	48 + 0	98 + 3.8	
49 - .1	99 + .1	49 + 0	99 + 4.1	
50 - .1	100 + .1	50 + 0	100 + .1	

1700 .05 0° .50 0 10.0 +2.5° 1.048 2031.8 .002173

a) 1 + .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + .1	52 + 1.2	2 + 0	52 + 1.1	2 - 14.2
3 + .1	53 + .6	3 + 0	53 + .3	3 - 23.0
4 - .3	54 + 6.0	4 + 0	54 + .6	4 - 20.2
5 + .1	55 + 5.6	5 + 0	55 + 1.0	5 - 12.4
6 + .1	56 + 5.0	6 + 0	56 + .5	6 + 2.9
7 + .1	57 + 3.7	7 - .8	57 + .4	7 - 3.6
8 + .1	58 + 4.0	8 - .9	58 + .6	8 + 17.7
9 + .1	59 + 3.1	9 - 1.0	59 + 1.3	9 + 31.9
10 + 1.3	60 + 3.5	10 + .5	60 + 1.8	10 + 36.7
11 + 0	61 + 4.2	11 - 1.0	61 + 3.2	11 - 9.0
12 + 0	62 + 4.0	12 + 0	62 + 4.3	12 - 14.0
13 + 0	63 + 2.1	13 + 1.0	63 + 4.9	13 - 15.5
14 + 0	64 + 2.0	14 + 5.0	64 + 3.4	14 - 12.2
15 + 0	65 + 3.3	15 - .1	65 + 4.2	15 + .5
16 + 0	66 + 2.1	16 - .1	66 + 5.4	16 - 8.3
17 + 0	67 - .6	17 + 0	67 + 6.3	17 + 2.0
18 + 0	68 + .2	18 + 0	68 + 7.2	18 + 22.7
19 + 0	69 + 2.7	19 + 0	69 + 6.9	19 + 36.4
20 + 0	70 + .1	20 + .1	70 + 5.3	20 + .2
21 + 0	71 - 2.3	21 + .1	71 + 5.1	21 - 4.0
22 + 0	72 - 1.7	22 + .1	72 - 4.4	22 - 6.5
23 + 0	73 + 1.8	23 + .1	73 + 3.3	23 - 7.1
24 + 0	74 + .1	24 + 1.2	74 + .3	24 - 6.4
25 + 0	75 - 2.9	25 - .1	75 + 4.5	25 - 1.7
26 + 0.1	76 - 1.0	26 - .1	76 + 1.3	26 - 5.4
27 + .1	77 + 2.7	27 - .1	77 + 3.8	27 - 3.9
28 + .1	78 + .9	28 - .1	78 + 4.8	28 + 4.8
29 + .1	79 - 1.0	29 - .1	79 + 6.9	29 + 20.6
30 + .1	80 + .6	30 - .1	80 + 8.3	30 + .2
31 + .1	81 + 3.2	31 - .1	81 + 8.5	
32 + .1	82 + 4.7	32 - .1	82 + 8.6	Seq. 5
33 + .1	83 + 5.6	33 - .1	83 + 7.6	
34 + .1	84 + 3.2	34 - .1	84 + 4.5	
35 + .1	85 + 6.2	35 - .1	85 + 5.0	
36 + .1	86 + 4.0	36 - .1	86 + 5.2	
37 + .1	87 + 4.5	37 - .1	87 - .9	
38 + .1	88 + 1.2	38 - .1	88 + 3.6	
39 + 0	89 + 4.4	39 - .1	89 + .2	
40 + .1	90 + 9.1	40 - .1	90 + 4.2	
41 + 0	91 + 7.6	41 - .1	91 + 4.4	
42 + 0	92 + .1	42 - .1	92 + 5.5	
43 + 0	93 + 4.5	43 - .1	93 + 2.7	
44 + 0	94 + 5.4	44 - .1	94 + 1.8	
45 + 0	95 + 4.7	45 - .1	95 + 3.0	
46 + 0	96 + 4.5	46 - .1	96 + 3.7	
47 + 0	97 + 2.6	47 - .1	97 + 3.2	
48 + 0	98 + .1	48 - .1	98 + 3.4	
49 + 0	99 + .1	49 - .1	99 + 4.2	
50 + 0	100 + .1	50 - .1	100 + .2	

1710	.05	0°	.40	0	10.0	+2.5°	1.010	2029.7	.002202
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a) 1 - .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 - .1	52 + .8	2 + 0	52 + .7	2 - 4.4
3 - .1	53 + .4	3 + 0	53 + .2	3 - 6.6
4 - .1	54 + 1.8	4 + 0	54 + .3	4 - 5.8
5 - .1	55 + 1.9	5 + 0	55 + .3	5 - 4.6
6 - .1	56 + 1.2	6 + 0	56 + .2	6 + .2
7 - .1	57 + .6	7 + 0	57 + 1.0	7 - 1.1
8 - .1	58 + .6	8 + 0	58 + .2	8 + 1.5
9 - .1	59 + .2	9 + 0	59 + .2	9 + 5.1
10 - 0	60 + .6	10 + 0.4	60 + .2	10 + 5.9
11 - .1	61 + 1.1	11 + 0	61 + .2	11 - 1.4
12 - .1	62 + 1.4	12 + .1	62 + .7	12 - 3.4
13 - .1	63 + 1.3	13 + .1	63 + 1.3	13 - 3.7
14 - .1	64 + 1.1	14 + 1.3	64 + 1.3	14 - 3.2
15 - .1	65 + 1.1	15 + 0	65 + 1.2	15 - .4
16 - .1	66 + .9	16 + 0	66 + 1.3	16 - 1.3
17 - .1	67 + .2	17 + 0	67 + 1.6	17 + .7
18 - .1	68 + .5	18 + 0	68 + 2.0	18 + 3.2
19 - .1	69 + .3	19 + 0	69 + 1.6	19 + 5.7
20 - .1	70 + .2	20 + 0	70 + .2	20 + .1
21 - .1	71 + .9	21 + 0	71 + .4	21 - 3.4
22 - .1	72 + .5	22 + 0	72 + .2	22 - 3.6
23 - .1	73 + .7	23 + 0	73 + .2	23 - 3.6
24 - .1	74 + .4	24 + .1	74 + .1	24 - 3.6
25 - .1	75 + .8	25 + 0	75 + .1	25 - 3.0
26 - .1	76 + .2	26 + 0	76 + .2	26 - 2.9
27 - .1	77 + .9	27 + 0	77 + 1.3	27 - 2.6
28 - .1	78 + .8	28 + 0	78 + 2.1	28 + .1
29 - .1	79 + .6	29 + 0	79 + 2.5	29 + 1.8
30 - .1	80 + .6	30 + 0	80 + 2.5	30 + .1
31 - .1	81 + 1.4	31 + 0	81 + 1.8	
32 - .1	82 + 1.7	32 + 0	82 + 1.8	Seq. 5
33 - .1	83 + 1.8	33 + 0	83 + .9	
34 - .1	84 + .4	34 + 0	84 + .9	
35 - .1	85 + .7	35 + 0	85 + 1.1	
36 - .1	86 + .8	36 + 0	86 + 1.0	
37 - .1	87 + .9	37 + 0	87 + .1	
38 - .1	88 + .6	38 + 0	88 + .4	
39 - .1	89 + .9	39 + 0	89 + .1	
40 - .1	90 + 1.6	40 + 0	90 + .4	
41 - .1	91 + .5	41 + 0	91 + .6	
42 - .1	92 + .2	42 + 0	92 + .7	
43 - .1	93 + .5	43 + 0	93 + .3	
44 - .1	94 + .2	44 + 0	94 + .1	
45 - .1	95 + .2	45 + 0	95 + .1	
46 - .1	96 + .2	46 + 0	96 + .3	
47 - .1	97 + .4	47 + 0	97 + .4	
48 - .1	98 + 1.1	48 + 0	98 + .4	
49 - .1	99 + .2	49 + 0	99 + .5	
50 - .1	100 + .2	50 + 0	100 + .1	

1711	.05	0°	.40	0	10.0	0°	1.010	2029.7	.002202
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a) 1 - .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 - .1	52 + .5	2 + 0	52 + .4	2 - 2.5
3 - .1	53 + .2	3 + 0	53 + .1	3 - 4.1
4 - .1	54 + .8	4 + 0	54 + .9	4 - 4.0
5 - .1	55 + .7	5 + 0	55 + 1.2	5 - 3.3
6 - .1	56 + .7	6 + 0	56 + .9	6 + .2
7 - .1	57 + .4	7 + 0	57 + .7	7 + .2
8 - .1	58 + .1	8 + 0	58 + .7	8 + .6
9 - .1	59 + .1	9 + 0	59 + .5	9 + 5.2
10 + .5	60 + .4	10 + 0	60 + .5	10 + 6.2
11 - .1	61 + .8	11 + .8	61 + .5	11 - .8
12 - .1	62 + .9	12 + 0	62 + .4	12 - 2.7
13 - .1	63 + 1.3	13 + 0	63 + .9	13 - 3.5
14 - .1	64 + 1.2	14 + .7	64 + 1.2	14 - 3.4
15 - .1	65 + 1.2	15 + 0	65 + 1.3	15 + .2
16 - .1	66 + 1.1	16 + 0	66 + 1.3	16 + .2
17 - .1	67 + 1.0	17 + 0	67 + 1.4	17 + 2
18 - .1	68 + .9	18 + 0	68 + 1.5	18 + 3.4
19 - .1	69 + 1.0	19 + 0	69 + 1.3	19 + 7.1
20 - .1	70 + .2	20 + 0	70 + .1	20 + .1
21 - .1	71 + .2	21 + 0	71 + .1	21 - 5.1
22 - .1	72 + .2	22 + 0	72 + .1	22 - 5.8
23 - .1	73 + .3	23 + 0	73 + .1	23 - 5.7
24 - .1	74 + .5	24 + .6	74 + .3	24 - 5.3
25 - .1	75 + .1	25 + .1	75 + .5	25 - .8
26 - .1	76 + .1	26 + 0	76 + ..	26 - 4.6
27 - .1	77 + .8	27 + 0	77 + .9	27 + .2
28 - .1	78 + 1.0	28 + 0	78 + .7	28 + ..8
29 - .1	79 + 1.1	29 + 0	79 + 1.3	29 + 3.4
30 - .1	80 + 1.2	30 + 0	80 + .8	30 + .2
31 - .1	81 + 1.2	31 + 0	81 + .5	
32 - .1	82 + 1.6	32 + 0	82 + .8	Seq. 5
33 - .1	83 + 1.7	33 + 0	83 + .1	
34 - .1	84 + .2	34 + 0	84 + .3	
35 - .1	85 + .6	35 + 0	85 + .6	
36 - .1	86 + .7	36 + 0	86 + .7	
37 - .1	87 + .9	37 + 0	87 + 1.3	
38 - .1	88 + 1.2	38 + 0	88 + ..	
39 - .1	89 + 1.4	39 + .3	89 + .4	
40 - .1	90 + ..6	40 + .1	90 + .4	
41 - .1	91 + .2	41 + .1	91 + .4	
42 - .1	92 + .2	42 + 0	92 + 1.0	
43 - .1	93 + .4	43 + 0	93 + .1	
44 - .1	94 + .1	44 + 0	94 + .2	
45 - .1	95 + .1	45 + 0	95 + .2	
46 - .1	96 + .2	46 + 0	96 + .2	
47 - .1	97 + .2	47 + 0	97 + .2	
48 - .1	98 + 1.2	48 + 0	98 + .2	
49 - .1	99 + .2	49 + 0	99 + .3	
50 - .1	100 + .2	50 + 0	100 + .2	

1712	.05	0°	.40	0	10.0	-2.5°	1.010	2029.7	.002202
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a) 1 - .2	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 - .2	52 + .5	2 + .3	52 + .3	2 + .2
3 - .2	53 + .3	3 + .1	53 + .3	3 - .8
4 - .2	54 + .6	4 + 0	54 + .3	4 - .8
5 - .2	55 + .2	5 + 0	55 + .4	5 - .8
6 - .2	56 + .2	6 + 0	56 + .2	6 + .5
7 - .2	57 + .2	7 + 0	57 + .2	7 + .5
8 - .2	58 + .1	8 + 0	58 + .3	8 + .5
9 - .2	59 + .8	9 + 0	59 + .5	9 + 1.9
10 + .4	60 + .1	10 + 0	60 + .8	10 + 4.8
11 - .1	61 + .0	11 + .3	61 + .9	11 - 1.7
12 - .2	62 + .8	12 + .1	62 + .9	12 - 2.9
13 - .1	63 + .8	13 + 0	63 + 1.2	13 - 3.4
14 - .1	64 + .8	14 + .4	64 + 1.2	14 - 2.1
15 - .1	65 + .8	15 + .1	65 + 1.2	15 + .5
16 - .1	66 + .9	16 + 0	66 + 1.2	16 + .7
17 - .1	67 + .3	17 + 0	67 + 1.4	17 + .9
18 - .1	68 + .3	18 + 0	68 + 1.6	18 + 5.2
19 - .1	69 + .6	19 + 0	69 + 1.7	19 + 7.5
20 - .1	70 + .2	20 + 0	70 + .2	20 + .1
21 - .1	71 + .2	21 + 0	71 + .2	21 - 4.7
23 - .1	72 + .1	22 + 0	72 + .2	22 - 0.4
23 - .1	73 + .3	23 + 0	73 + .2	23 - 5.7
24 - .1	74 + .5	24 + 1.4	74 + .1	24 - 4.7
25 + 0	75 + .2	25 + .1	75 + .7	25 - 1.2
26 + 0	76 + .2	26 + 0	76 + .7	26 - 3.2
27 + 0	77 + .7	27 + 0	77 + .3	27 + .7
28 + 0	78 + 1.2	28 + 0	78 + .3	28 + 1.8
29 + 0	79 + 1.5	29 + 0	79 + .3	29 + 5.4
30 + 0	80 + 1.7	30 + .5	80 + .4	30 + .1
31 + 0	81 + 1.4	31 + .1	81 + .5	
32 + 0	82 + 1.7	32 + 0	82 + .7	Seq. 5
33 + 0	83 + 1.3	33 + 0	83 + .8	
34 + 0	84 + .2	34 + 0	84 + .8	
35 + 0	85 + .3	35 + 0	85 + .8	
36 + 0	86 + .5	36 + 0	86 + .8	
37 + 0	87 + 1.1	37 + 0	87 + 1.3	
38 + 0	88 + .9	38 + 0	88 + 1.3	
39 + 0	89 + .2	39 + 0	89 + 1.3	
40 + 0	90 + .1	40 + 0	90 + .2	
41 + 0	91 + .1	41 + 0	91 + .3	
42 + 0	92 + .2	42 + 0	92 + .9	
43 + 0	93 + .5	43 + 0	93 + 1.1	
44 + 0	94 + .4	44 + 0	94 + .1	
45 + 0	95 + .4	45 + 0	95 + .1	
46 + 0	96 + .4	46 + 0	96 + .1	
47 + 0	97 + .4	47 + 0	97 + .1	
48 + 0	98 + .1	48 + 0	98 + .1	
49 + 0	99 + .1	49 + 0	99 + .2	
50 + 0	100 + .1	50 + 0	100 + .2	

1728	.05	0°	.40	0	10.0	+2.5°	1.049	2026.2	.002121
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a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + 1.0	2 + 0	52 + 1.3	2 - 11.8
3 + 0	53 + .1	3 + 0	53 + 1.0	3 - 19.2
4 - 1.6	54 + 8.1	4 + .1	54 + .3	4 - 16.8
5 + .1	55 + 6.5	5 + .2	55 + .5	5 - 8.7
6 + .1	56 + 5.7	6 + .2	56 - .6	6 + 5.4
7 + 1	57 + 5.0	7 + .2	57 - 1.7	7 - 1.6
8 + .1	58 + 5.2	8 + .2	58 - .5	8 + 18.3
9 + .1	59 + 2.9	9 + .1	59 + .5	9 + 32.7
10 + 1.8	60 + 3.9	10 + 3.9	60 + 1.3	10 + 39.7
11 + 0	61 + 5.5	11 + 1.2	61 + 2.7	11 - 6.2
12 + 0	62 + 4.3	12 + .1	62 + 4.1	12 - 10.8
13 + 0	63 + 1.3	13 + 1.7	63 + 5.1	13 - 12.6
14 + 0	64 + 2.2	14 + 8.0	64 + 4.4	14 - 9.3
15 + 0	65 + 4.9	15 + .1	65 + 5.5	15 + 4.2
16 + 0	66 + 2.0	16 + .2	66 + 7.4	16 - 5.7
17 + 0	67 - 1.1	17 + .2	67 + 8.5	17 + 5.7
18 + 0	68 + .7	18 + .2	68 + 8.9	18 + 26.1
19 + 0	69 + 4.4	19 + .2	69 + 7.3	19 + 40.2
20 + 0	70 + .8	20 + .2	70 + 4.7	20 + 1.9
21 + 0	71 - 2.1	21 + .2	71 + 4.0	21 + .1
22 + 0	72 + .2	22 + .2	72 + 2.9	22 - 3.1
23 + 0	73 + 4.3	23 + .2	73 + 2.8	23 - 3.4
24 + 0	74 + 1.2	24 + 1.8	74 + 1.0	24 - 1.9
25 + 0	75 - 2.2	25 + 0	75 + 1.6	25 + 1.2
26 + 0	76 + 1.0	26 + 0	76 + 3.7	26 - .7
27 + 0	77 + 5.5	27 + 0	77 + 7.4	27 - .6
28 + 0	78 + 1.2	28 + 0	78 + 9.3	28 + 7.1
29 + 0	79 - .8	29 + 0	79 + 10.5	29 + 23.5
30 + 0	80 + 2.3	30 + 0	80 + 10.0	30 + .2
31 + 0	81 + 6.5	31 + 0	81 + 6.3	
32 + 0	82 + 7.2	32 + 0	82 + 5.9	Seq. 5
33 + 0	83 + 8.7	33 + 0	83 + 5.0	
34 + 0	84 + 3.1	34 + 0	84 + 5.6	
35 + 0	85 + 3.7	35 + 0	85 + 6.5	
36 + 0	86 + 2.9	36 + 0	86 + 6.8	
37 + 0	87 + 5.0	37 + 0	87 - 1.5	
38 + 0	88 + 1.7	38 + 0	88 + 2.7	
39 + 0	89 + 8.9	39 + 0	89 - 1.0	
40 + 0	90 + 9.7	40 - .4	90 + 5.1	
42 + 0	91 + 4.3	41 + .2	91 + 6.3	
42 + 0	92 + .1	42 + .2	92 + 6.7	
43 + 0	93 + 5.2	43 + .2	93 + 1.6	
44 + 0	94 + 4.2	44 + .2	94 + .9	
45 + 0	95 + 4.6	45 + .2	95 + 3.1	
46 + 0	96 + 5.4	46 + .2	96 + 5.1	
47 + 0	97 + 3.8	47 + .2	97 + 3.6	
48 + 0	98 + .1	48 + .2	98 + 4.1	
49 + 0	99 + .1	49 + .2	99 + 5.8	
50 + 0	100 + .1	50 + .2	100 + .1	

1729	:05	0°	.40	0	10.0	0°	1.048	2026.2	.002121
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a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + .1	52 + 1.0	2 + .2	52 + 1.0	2 + 8.2
3 + .1	53 + .5	3 + .3	53 + .3	3 - 13.4
4 + .1	54 + 4.3	4 + .3	54 + 5.0	4 - 12.9
5 + 0	55 + 2.9	5 + .4	55 + 7.0	5 - 7.7
6 + 0	56 + 3.4	6 + .4	56 + 3.7	6 + 4.1
7 + 0	57 + 4.1	7 + .4	57 + 4.9	7 + 5.1
8 + 0	58 + 3.2	8 + .4	58 + 5.1	8 + 8.6
9 + 0	59 + 1.4	9 + 1.4	59 + 3.4	9 + 25.0
10 + 3.8	60 + 2.6	10 + 1.5	60 + 3.1	10 + 35.0
11 + 0	61 + 4.8	11 + 0.9	61 + 2.0	11 - 5.5
12 + 0	62 + 4.4	12 + 0	62 + 2.9	12 - 10.5
13 + 0	63 + 2.9	13 + 1.0	63 + 3.0	13 - 11.7
14 + 0	64 + 3.0	14 + 7.5	64 + 5.7	14 - 9.7
15 + 0	65 + 4.9	15 + .3	65 + 6.0	15 + 3.3
16 + 0	66 + 3.9	16 + .4	66 + 6.9	16 - 6.0
17 + 0	67 + 2.1	17 + .4	67 + 6.9	17 + 3.3
18 + 0	68 + 3.8	18 + .5	68 + 5.6	18 + 24.6
19 + 0	69 + 4.9	19 + .8	69 + 3.7	19 + 40.1
20 + 0	70 + 3.1	20 + .2	70 + 1.5	20 + 1.2
21 + 0	71 + 1.0	21 + .3	71 + 1.7	21 - 8.6
22 + 0	72 + 2.8	22 + .4	72 + 1.8	22 - 14.7
23 + 0	73 + 4.3	23 + .7	73 + 2.1	23 - 14.1
24 + 0	74 + 3.9	24 + 6.5	74 + 4.0	24 - 8.6
25 + 0	75 + 1.0	25 + .2	75 + 5.9	25 + 3.4
26 + 0	76 + 2.7	26 + .3	76 + 6.1	26 - 6.0
27 + 0	77 + 4.9	27 + .3	77 + 6.3	27 + 6.2
28 + 0	78 + 5.0	28 + .4	78 + 5.1	28 + 16.5
29 + 0	79 + 3.3	29 + .4	79 + 5.1	29 + 28.8
30 + 0	80 + 4.1	30 + .9	80 + 2.8	30 + .2
31 + 0	81 + 5.3	31 + .8	81 + 2.9	
32 + 0	82 + 6.1	32 + .8	82 + 3.1	
33 + 0	83 + 6.6	33 + .1	83 + 3.2	
34 + 0	84 + 1.3	34 + .6	84 + 3.7	
35 + 0	85 + 2.6	35 + .6	85 + 4.5	
36 + 0	86 + 3.8	36 + .6	86 + 4.7	
37 + 0	87 + 5.0	37 + .6	87 + 6.0	
38 + 0	88 + 6.2	38 + .9	88 + 2.5	
39 + 0	89 + 6.2	39 + 1.8	89 + 2.7	
40 + 0	90 + 1.9	40 + .1	90 + 2.9	
41 + 0	91 + 1.9	41 + .1	91 + 4.1	
42 + 0	92 + .1	42 + .1	92 + 6.3	
43 + 0	93 + 4.4	43 + .1	93 + 2.6	
44 + 0	94 + 2.9	44 + .1	94 + 1.6	
45 + 0	95 + 3.2	45 + .1	95 + 2.6	
46 + 0	96 + 4.2	46 + .1	96 + 3.8	
47 + 0	97 + 2.6	47 + .1	97 + 3.9	
48 + 0	98 + .1	48 + .1	98 + 4.1	
49 + 0	99 + .1	49 + .1	99 + 4.5	
50 + 0.	100 + .1	50 + .1	100 + .1	

Seq. 5

1730 .05 0° .40 0 10.0 -2.5° 1.049 2026.2 .002121

a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + .1	52 + 1.0	2 + 0	52 + .8	2 + .6
3 + .1	53 + .7	3 + 0	53 + .6	3 + 5.1
4 + .1	54 + 2.9	4 + 0	54 + 1.1	4 + 5.0
5 + .1	55 + .8	5 + 0	55 + 2.3	5 + 4.6
6 + .1	56 + 1.5	6 + 0	56 + 1.5	6 + .6
7 + .1	57 + 5.0	7 + 0	57 + 4.0	7 + 1.7
8 + .1	58 + 1.7	8 + 0	58 + 6.9	8 + .9
9 + .1	59 + .9	9 + 0	59 + 8.1	9 + 13.7
10 + 3.0	60 + 1.3	10 + .1	60 + 8.4	10 + 21.8
11 + 0	61 + 5.7	11 + 1.8	61 + 6.8	11 + 11.8
12 + 0	62 + 3.0	12 + 0	62 + 6.2	12 + 17.8
13 + 0	63 + .1	13 + .3	63 + 6.2	13 + 18.5
14 + 0	64 + 1.8	14 + .1	64 + 4.0	14 + 13.0
15 + 0	65 + 5.9	15 + 0	65 + 5.3	15 + 1.7
16 + 0	66 + 2.8	16 + .1	66 + 7.2	16 + 7.6
17 + 0	67 + .6	17 + .1	67 + 8.3	17 + 9.6
18 + 0	68 + 1.7	18 + .2	68 + 8.7	18 + 31.5
19 + 0	69 + 5.6	19 + .3	69 + 6.9	19 + 43.1
20 + 0	70 + 3.2	20 + .3	70 + 3.5	20 + .2
21 + 0	71 + .4	21 + .1	71 + 2.7	21 + 15.3
22 + 0	72 + 1.3	22 + .1	72 + 2.1	22 + 21.5
23 + 0	73 + 5.6	23 + 1.9	73 + 2.1	23 + 20.2
24 + 0	74 + 5.3	24 + 7.5	74 + .5	24 + 12.6
25 + 0	75 + 3.2	25 + .1	75 + 1.4	25 + 3.6
26 + 0	76 + 3.6	26 + .2	76 + 1.4	26 + 4.8
27 + 0	77 + 6.1	27 + .3	77 + .2	27 + 13.2
28 + 0	78 + 7.2	28 + .9	78 + .2	28 + 22.2
29 + 0	79 + 7.2	29 + 2.2	79 + 1.0	29 + 32.6
30 + 0	80 + 7.0	30 + 4.5	80 + 1.7	30 + .1
31 + 0	81 + 7.0	31 + 0	81 + 2.9	
32 + 0	82 + 7.4	32 + .1	82 + 3.8	Seq. 5
33 + 0	83 + 6.7	33 + .2	83 + 4.0	
34 + 0	84 + .9	34 + .2	84 + 4.1	
35 + 0	85 + 2.0	35 + .2	85 + 5.3	
36 + 0	86 + 4.0	36 + 0	86 + 5.6	
37 + 0	87 + 6.1	37 + .1	87 + 9.0	
38 + 0	88 + 2.8	38 + .1	88 + 3.5	
39 + 0	89 + .8	39 + .1	89 + 9.0	
40 + 0	90 + .8	40 + .1	90 + 2.8	
41 + 0	91 + 2.3	41 + .1	91 + 4.8	
42 + 0	92 + .1	42 + .1	92 + 9.3	
43 + 0	93 + 6.3	43 + .1	93 + 8.4	
44 + 0	94 + 4.5	44 + .1	94 + 2.2	
45 + 0	95 + 5.1	45 + .1	95 + 2.3	
46 + 0	96 + 5.7	46 + .1	96 + 4.3	
47 + 0	97 + 3.6	47 + .1	97 + 2.2	
48 + 0	98 + .1	48 + .1	98 + 3.7	
49 + 0	99 + .1	49 + .1	99 + 5.2	
50 + 0	100 + .1	50 + .1	100 + .1	

1743	.05	0°	.35	0	10.0	+2.5°	1.010	2026.9	.002259
a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2					
2 + .1	52 + 1.0	2 + 0	52 + .8	2 + 3.0					
3 + .1	53 + .5	3 + 0	53 + .2	3 + 4.4					
4 + .1	54 + 2.5	4 + 0	54 + .6	4 + 3.6					
5 + .1	55 + 1.7	5 + 0	55 + .8	5 + 2.3					
6 + .1	56 + 1.3	6 + 0	56 + .1	6 + .6					
7 + .1	57 + .7	7 + 0	57 + 1.1	7 + .5					
8 + .1	58 + .8	8 + 0	58 + .7	8 + 3.6					
9 + .1	59 + .2	9 + 0	59 + .4	9 + 7.8					
10 + 3.9	60 + .5	10 + .6	60 + .2	10 + 9.1					
11 + 0	61 + 1.0	11 + .1	61 + .5	11 + .1					
12 + 0	62 + 1.4	12 + .1	62 + 1.3	12 + 1.2					
13 + 0	63 + .9	13 + .1	63 + 1.7	13 + 2.3					
14 + 0	64 + .9	14 + .3	64 + 1.3	14 + 1.3					
15 + 0	65 + 1.1	15 + 0	65 + 1.3	15 + .6					
16 + 0	66 + .6	16 + 0	66 + 1.5	16 + .3					
17 + 0	67 + .2	17 + 0	67 + 1.9	17 + 1.7					
18 + 0	68 + .9	18 + 0	68 + 2.4	18 + 6.3					
19 + 0	69 + 1.3	19 + 0	69 + 1.6	19 + 9.3					
20 + 0	70 + .1	20 + 0	70 + .1	20 + .2					
21 + 0	71 + .1	21 + 0	71 + .3	21 + .2					
22 + 0	72 + .1	22 + 0	72 + .2	22 + 1.0					
23 + 0	73 + .7	23 + 0	73 + .2	23 + 1.3					
24 + 0	74 + .2	24 + 0	74 + .2	24 + 1.1					
25 + 0	75 + 1.3	25 + 0	75 + .2	25 + .2					
26 + 0	76 + .2	26 + 0	76 + .6	26 + .6					
27 + 0	77 + 1.5	27 + 0	77 + 2.1	27 + .5					
28 + 0	78 + .8	28 + 0	78 + 2.7	28 + 1.5					
29 + 0	79 + .6	29 + 0	79 + 3.1	29 + 5.5					
30 + 0	80 + .7	30 + 0	80 + 2.1	30 + .1					
31 + 0	81 + 1.5	31 + 0	81 + 1.1						
32 + 0	82 + 2.0	32 + 0	82 + 1.3	Seq. 5					
33 + 0	83 + 2.2	33 + 0	83 + .7						
34 + 0	84 + .4	34 + 0	84 + 1.1						
35 + 0	85 + .5	35 + 0	85 + 1.7						
36 + 0	86 + .7	36 + 0	86 + 1.6						
37 + 0	87 + 1.2	37 + 0	87 + .3						
38 + 0	88 + .4	38 + 0	88 + .6						
39 + 0	89 + 1.9	39 + 0	89 + .1						
40 + 0	90 + 1.2	40 + 0	90 + .7						
41 + 0	91 + .2	41 + 0	91 + 1.1						
42 + 0	92 + .1	42 + 0	92 + 1.3						
43 + 0	93 + .9	43 + 0	93 + .2						
44 + 0	94 + .2	44 + 0	94 + .2						
45 + 0	95 + .2	45 + 0	95 + .2						
46 + 0	96 + .2	46 + 0	96 + .8						
47 + 0	97 + .4	47 + 0	97 + .6						
48 + 0	98 + .9	48 + 0	98 + .7						
49 + 0	99 + .6	49 + 0	99 + 1.2						
50 + 0	100 + .2	50 + 0	100 + .1						

1744	.05	0°	.35	0	10.0	0°	1.010	2026.9	.002259
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1	.1	51	.1	51	.1	51	.2	51	.2
2	.1	52	.8	52	.1	52	.8	52	1.9
3	.1	53	.2	53	.1	53	.2	53	3.6
4	.1	54	1.2	54	.1	54	1.6	54	3.5
5	.1	55	.9	55	0	55	2.0	55	2.5
6	.1	56	.4	56	0	56	1.0	56	.3
7	.1	57	.2	57	0	57	.8	57	1.1
8	.1	58	.2	58	0	58	.9	58	1.0
9	.1	59	.2	59	0	59	.7	59	5.0
10	1.7	60	.2	60	0	60	.8	60	7.5
11	.1	61	.7	61	.1	61	.0	61	1.3
12	.1	62	1.0	62	0	62	.6	62	1.8
13	.1	63	1.2	63	0	63	1.2	63	2.8
14	.1	64	1.1	64	.1	64	1.4	64	2.3
15	.1	65	1.2	65	0	65	1.4	65	.2
16	.1	66	1.2	66	0	66	1.6	66	1.3
17	.1	67	.1	67	0	67	1.7	67	.8
18	.1	68	.9	68	0	68	1.7	68	4.9
19	.1	69	1.0	69	0	69	.8	69	7.5
20	.1	70	.1	70	0	70	.1	70	.2
21	.1	71	.1	71	0	71	.1	71	3.5
22	.1	72	.1	72	0	72	.2	72	4.9
23	.1	73	.3	73	0	73	.2	73	4.4
24	.1	74	.4	74	.3	74	1.1	74	3.8
25	.1	75	.1	75	.1	75	.7	75	.2
26	.1	76	.1	76	.1	76	.8	76	3.1
27	.1	77	.8	77	.1	77	1.1	77	.3
28	.1	78	1.0	78	.1	78	1.2	78	1.8
29	.1	79	1.0	79	.1	79	1.2	79	4.2
30	.1	80	1.1	80	.1	80	1.2	80	.1
31	.1	81	1.2	81	.1	81	1.0		
32	.1	82	1.5	82	.1	82	1.0		Seq.5
33	.1	83	1.5	83	.1	83	.9		
34	.1	84	1	84	.1	84	.8		
35	.1	85	4	85	.1	85	.9		
36	.1	86	.5	86	.1	86	.9		
37	.1	87	.9	87	.1	87	1.4		
38	.1	88	1.2	88	.1	88	.9		
39	.1	89	1.0	89	.1	89	.4		
40	.1	90	.2	90	.1	90	.4		
41	.1	91	.2	91	.1	91	.4		
42	.1	92	.2	92	0	92	1.0		
43	.1	93	.3	93	0	93	.5		
44	.1	94	.2	94	0	94	.2		
45	.1	95	.1	95	0	95	.2		
46	.1	96	.1	96	0	96	.2		
47	.1	97	.2	97	0	97	.2		
48	.1	98	.1	98	0	98	.2		
49	.1	99	.1	99	0	99	.4		
50	.1	100	.1	50	0	100	.2		

1745 .05 0° .35 0 10.0 -2.5° 1.010 2026.9 .002259

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + .9	2 + 0	52 + .6	2 + .1
3 + 0	53 + .1	3 + 0	53 + .2	3 - 1.9
4 + 0	54 + 1.0	4 + 0	54 + .8	4 - 1.9
5 - .1	55 + .8	5 + 0	55 + 1.1	5 - 1.7
6 - .1	56 + .7	6 + 0	56 + .7	6 + .3
7 - .1	57 + .7	7 + 0	57 + .7	7 + .3
8 - .1	58 + .6	8 + 0	58 + 1.2	8 + .3
9 - .1	59 - 1.1	9 + 0	59 + 1.4	9 + 2.8
10 - .1	60 + .2	10 + 0	60 + 1.6	10 + 5.5
11 - .1	61 + 1.0	11 + 0	61 + .5	11 - 2.9
12 - .1	62 + 1.2	12 + 0	62 + 1.1	12 - 4.1
13 - .1	63 + 1.2	13 + 0	63 + 1.3	13 - 4.1
14 - .1	64 + 1.2	14 + 0	64 + 1.3	14 - 3.6
15 - .1	65 + 1.2	15 + 0	65 + 1.3	15 - .7
16 - .1	66 + 1.2	16 + 0	66 + 1.5	16 - 2.5
17 - .1	67 + .4	17 + 0	67 + 1.7	17 + .9
18 - .1	68 + .7	18 + 0	68 + 2.0	18 + 6.1
19 - .1	69 + 1.0	19 + 0	69 + 1.5	19 + 8.0
20 - .1	70 + .1	20 + 0	70 + .1	20 + .1
21 - .1	71 + .1	21 + 0	71 + .1	21 - 4.6
22 - .1	72 + .1	22 + 0	72 + .1	22 - 6.3
23 - .1	73 + .4	23 + 0	73 + .1	23 - 5.9
24 - .1	74 + .6	24 + .2	74 + .1	24 - 4.7
25 - .1	75 + .2	25 + .1	75 + .1	25 - 1.1
26 - .1	76 + .2	26 + .1	76 + .1	26 - 3.2
27 - .1	77 + 1.2	27 + .1	77 + .1	27 + .9
28 - .1	78 + 1.7	28 + .1	78 + .1	28 + 2.9
29 - .1	79 + 1.8	29 + .1	79 + .3	29 + 5.2
30 - .1	80 + 1.9	30 + .5	80 + .5	30 + .1
31 - .1	81 + 1.9	31 - .1	81 + .6	
32 - .1	82 + 1.9	32 - .1	82 + 1.0	Seq. 5
33 - .1	83 + 1.0	33 - .1	83 + .9	
34 - .1	84 + .2	34 - .1	84 + .9	
35 - .1	85 + .2	35 - .1	85 + 1.1	
36 - .1	86 + .4	36 - .1	86 + 1.2	
37 - .1	87 + 1.2	37 - .1	87 + 1.8	
38 - .1	88 + 1.3	38 - .1	88 + .4	
39 - .1	89 + .1	39 - .1	89 + 1.1	
40 - .1	90 + .2	40 - .1	90 + .2	
41 - .1	91 + .2	41 - .1	91 + .5	
42 - .1	92 + .1	42 - .1	92 + 1.5	
43 - .1	93 + .8	43 - .1	93 + .7	
44 - .1	94 + .4	44 - .1	94 + .2	
45 - .1	95 + .4	45 - .1	95 + .1	
46 - .1	96 + .4	46 - .1	96 + .1	
47 - .1	97 + .5	47 - .1	97 + .1	
48 - .1	98 + .2	48 - .1	98 + .2	
49 - .1	99 + .2	49 - .1	99 + .5	
50 - .1	100 + .1	50 - .1	100 + .1	

1764 .05 0° .35 0 10.0 -2.5° 1.048 2026.9 .002157

a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + .6	2 + .1	52 + .6	2 - 2.0
3 + 0	53 + .5	3 + .1	53 + .1	3 - 4.9
4 + 0	54 + 2.8	4 + .1	54 + 1.7	4 - 5.3
5 + 0	55 + .1	5 + .1	55 + 3.3	5 - 4.2
6 - .1	56 + 1.8	6 + .1	56 + 2.7	6 + .6
7 - .1	57 + 5.2	7 + .1	57 + 5.7	7 - 1.7
8 - .1	58 + 1.9	8 + .1	58 + 8.9	8 + .1
9 - .1	59 - .6	9 + .1	59 + 9.3	9 + 14.0
10 + 3.0	60 + 1.7	10 + .1	60 + 8.6	10 + 29.4
11 - .1	61 + 5.7	11 + 2.7	61 + 4.5	11 - 12.9
12 - .1	62 + 2.9	12 + .1	62 + 4.5	12 - 10.7
13 - .1	63 + .2	13 + .4	63 + 4.5	13 - 18.3
14 - .1	.4 + 2.3	14 + 3.0	64 + 4.3	14 - 13.7
15 - .1	65 + 5.8	15 + .1	65 + 5.6	15 + 1.7
16 - .1	66 + 3.1	16 + .1	66 + 8.3	16 - 7.0
17 - .1	67 + .1	17 + .1	67 + 9.4	17 + 11.3
18 - .1	68 + 2.3	18 + .1	68 + 9.4	18 + 31.8
19 - .1	69 + 5.8	19 + .1	69 + 6.6	19 + 43.2
20 - .1	70 + 2.7	20 + .1	70 + 2.2	20 + .1
21 - .1	71 + .1	21 + 0	71 + 2.0	21 - 14.8
22 - .1	72 + 1.5	22 + .1	72 + 1.2	22 - 21.9
23 - .1	73 + 5.1	23 + 1.0	73 + 1.8	23 - 19.5
24 - .1	74 + 5.4	24 + 7.8	74 - .2	24 - 11.6
25 - .1	75 + 2.2	25 + 0	75 - .9	25 + 4.5
26 - .1	76 + 3.3	26 + 1	76 - .9	26 - 4.9
27 - .1	77 + 5.8	27 + .1	77 + .4	27 + 12.5
28 - .1	78 + 7.2	28 + .1	78 + .4	28 + 22.5
29 - .1	79 + 6.3	29 + .7	79 + .7	29 + 32.4
30 - .1	80 + 6.3	30 + 4.0	80 + 1.3	30 + .2
31 - .1	81 + 6.6	31 + 0	81 + 2.2	
32 - .1	82 + 7.4	32 + .1	82 + 3.5	Seq. 5
33 - .1	83 + 6.0	33 + .2	83 + 3.7	
34 - .1	84 + .5	34 + .3	84 + 3.8	
35 - .1	85 + 1.4	35 + .4	85 + 5.1	
36 - .1	86 + 3.7	36 + .5	86 + 5.8	
37 - .1	87 + 6.3	37 + .5	87 + 10.5	
38 - .1	88 + 4.8	38 + .5	88 + 2.2	
39 - .1	89 + .1	39 + .5	89 + 7.3	
40 - .1	90 - .7	40 + 0	90 + 2.5	
41 - .1	91 + 2.0	41 + 0	91 + 5.2	
42 - .1	92 + .1	42 + 0	92 + 11.6	
43 - .1	93 + 5.8	43 + 0	93 + 5.9	
44 - .1	94 + 4.9	44 + 0	94 + 1.3	
45 - .1	95 + 4.9	45 + 0	95 + 2.2	
46 - .1	96 + 5.7	46 + 0	96 + 4.5	
47 - .1	97 + 3.8	47 + 0	97 + 3.5	
48 - .1	98 + .1	48 + 0	98 + 4.4	
49 - .1	99 + .1	49 + 0	99 + 5.7	
50 - .1	100 + .1	50 + 0	100 + .1	

1765	.05	0°	.35	0	10.0	0°	1.049	2026.9	.002157
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a) 1 - .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .2
2 - .1	52 + .7	2 - .1	52 + .5	2 - 8.3
3 - .1	53 + .2	3 - .1	53 + .2	3 - 14.8
4 - .1	54 + 4.6	4 - .1	54 + 5.5	4 - 14.7
5 - .1	55 + 3.5	5 - .1	55 + 6.0	5 - 9.7
6 - .1	56 + 3.7	6 - .1	56 + 3.2	6 + 2.2
7 - .1	57 + 4.2	7 - .1	57 + 4.6	7 + 4.5
8 - .1	58 + 4.1	8 - .1	58 + 4.6	8 + 7.8
9 - .1	59 + 1.8	9 - .1	59 + 2.8	9 + 23.7
10 + .8	60 + 3.0	10 + 0	60 + 1.8	10 + 33.9
11 + 0	61 + 4.5	11 + 6.2	61 + 1.4	11 - 7.2
12 - .1	62 + 4.6	12 - .1	62 + 2.0	12 - 12.1
13 - .1	63 + 3.8	13 + 0	63 + 2.9	13 - 14.2
14 - .1	64 + 4.0	14 + 6.2	64 + 5.0	14 - 1.1
15 - .1	65 + 4.6	15 - .1	65 + 6.1	15 + 1.7
16 - .1	66 + 4.2	16 - .1	66 + 7.0	16 - 6.3
17 - .1	67 + 2.6	17 - .1	67 + 6.8	17 + 3.2
18 - .1	68 + 3.0	18 - .1	68 + 5.6	18 + 23.7
19 - .1	69 + 4.9	19 - .1	69 + 3.1	19 + 38.4
20 - .1	70 + 2.4	20 - .1	70 + .7	20 + .2
21 - .1	71 + 1.4	21 - .1	71 + .9	21 - 9.3
22 - .1	72 + 2.3	22 - .1	72 + 1.0	22 - 15.4
23 - .1	73 + 4.2	23 - .1	73 + 1.3	23 - 15.1
24 - .1	74 + 3.1	24 + 5.2	74 + 3.8	24 - 9.0
25 - .1	75 + 1.4	25 - .1	75 + 5.1	25 + 1.9
26 - .1	76 + 2.6	26 - .1	76 + 5.9	26 - 6.9
27 - .1	77 + 5.0	27 - .1	77 + 6.0	27 + 2.9
28 - .1	78 + 4.0	28 - .1	78 + 5.2	28 + 15.0
29 - .1	79 + 2.7	29 - .1	79 + 3.7	29 + 28.1
30 - .1	80 + 3.8	30 + .3	80 + 2.0	30 + .1
31 - .1	81 + 5.1	31 + 0	81 + 2.3	
32 - .1	82 + 5.9	32 + 0	82 + 2.1	Seq. 5
33 - .1	83 + 6.4	33 - .1	83 + 2.3	
34 - .1	84 + .9	34 - .1	84 + 2.7	
35 - .1	85 + 2.1	35 - .1	85 + 3.3	
36 - .1	86 + 3.5	36 - .1	86 + 3.7	
37 - .1	87 + 4.5	37 - .1	87 + 5.9	
38 - .1	88 + 6.0	38 + .4	88 + 1.5	
39 - .1	89 + 6.3	39 + .5	89 + 1.6	
40 - .1	90 + 1.9	40 - .1	90 + 2.2	
41 - .1	91 + 2.0	41 - .1	91 + 3.0	
42 - .1	92 + .1	42 - .1	92 + 5.5	
43 - .1	93 + 3.9	43 - .1	93 + 1.2	
44 - .1	94 + 3.0	44 - .1	94 + 1.0	
45 - .1	95 + 3.4	45 - .1	95 + 1.6	
46 - .1	96 + 3.9	46 - .1	96 + 2.9	
47 - .1	97 + 2.6	47 - .1	97 + 2.9	
48 - .1	98 + .1	48 - .1	98 + 3.2	
49 - .1	99 + .1	49 - .1	99 + 3.6	
50 - .1	100 + .1	50 - .1	100 + .1	

1766	.05	0°	.35	0	10.0	$+2.5^\circ$	1.048	2026.9	.002157
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a) 1 - .1	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 - .1	52 + .6	2 + .1	52 + .2	2 - 11.5
3 - .1	53 + .2	3 + 0	53 + .1	3 - 20.1
4 - .1	54 + 7.8	4 + 0	54 + .1	4 - 19.0
5 - .1	55 + 6.1	5 + 0	55 + .3	5 - 11.7
6 - .1	56 + 5.0	6 + 0	56 + .2	6 + 3.2
7 - .1	57 + 5.3	7 + 0	57 - 2.1	7 - 3.1
8 - .1	58 + 5.5	8 + 0	58 - 1.8	8 + 14.4
9 - .1	59 + 2.4	9 + 0	59 - 1.5	9 + 29.8
10 + .3	60 + 3.3	10 + 3.1	60 + .2	10 + 36.3
11 + 0	61 + 5.8	11 + 3.2	61 + 1.9	11 - 9.4
12 + 0	62 + 4.8	12 + .1	62 + 2.2	12 - 11.9
13 + 0	63 + .9	13 + .1	63 + 2.8	13 - 12.8
14 + 0	64 + 2.0	14 + 6.0	64 + 3.0	14 - 11.9
15 - .1	65 + 4.9	15 + 0	65 + 3.7	15 + 2.2
16 + 0	66 + 2.5	16 + 0	66 + 5.5	16 - 7.3
17 - .1	67 - .1	17 + 0	67 + 6.8	17 + 4.0
18 - .1	68 + 1.7	18 + 0	68 + 7.1	18 + 23.0
19 - .1	69 + 5.0	19 + 0	69 + 5.4	19 + 35.3
20 - .1	70 + 1.3	20 + 0	70 + 2.7	20 + .2
21 - .1	71 - 1.6	21 + 0	71 + 1.6	21 - 1.3
22 - .1	72 + .8	22 + 0	72 + 1.1	22 - 3.3
23 - .1	73 + 4.3	23 + 0	73 + 1.2	23 - 4.8
24 - .1	74 + 2.8	24 + .9	74 + .1	24 - 4.8
25 - .1	75 - .6	25 + .1	75 + .7	25 + .2
26 - .1	76 + 1.5	26 + 0	76 + 2.7	26 - 2.2
27 - .1	77 + 5.4	27 + 0	77 + 6.9	27 - 2.2
28 - .1	78 + 4.0	28 + 0	78 + 8.7	28 + 4.9
29 - .1	79 - .3	29 + 0	79 + 9.3	29 + 19.8
30 - .1	80 + 2.2	30 + 0	80 + 7.7	30 + .1
31 - .1	81 + 5.6	31 + 0	81 + 3.4	
32 - .1	82 + 7.1	32 + 0	82 + 3.5	Seq. 5
33 - .1	83 + 10.1	33 + 0	83 + 3.0	
34 - .1	84 + 2.0	34 + 0	84 + 3.8	
35 - .1	85 + 2.2	35 + 0	85 + 4.8	
36 - .1	86 + 2.4	36 + 0	86 + 5.3	
37 - .1	87 + 4.7	37 + 0	87 + .1	
38 - .1	88 + 2.3	38 + 0	88 + .8	
39 - .1	89 + 9.7	39 + 0	89 - 1.2	
40 - .1	90 + 8.8	40 + 0	90 + 3.0	
41 - .1	91 + 2.0	41 + 0	91 + 4.5	
42 - .1	92 + .2	42 + 0	92 + 5.3	
43 - .1	93 + 4.7	43 + 0	93 + .9	
44 - .1	94 + 3.6	44 + 0	94 + .2	
45 - .1	95 + 3.9	45 + 0	95 + 1.4	
46 - .1	96 + 5.1	46 + 0	96 + 3.7	
47 - .1	97 + 4.5	47 + 0	97 + 2.8	
48 - .1	98 + .1	48 + 0	98 + 3.1	
49 - .1	99 + .1	49 + 0	99 + 4.3	
50 - .1	100 + .1	50 + 0	100 + .1	

1770 .05 0° .30 0 10.0 +2.5° 1.009 2026.2 .002203

a) 1 + .1	51 + .1	b) 1 + .1	51 + .2	c) 1 + .2
2 + .1	52 + .3	2 + .1	52 + .3	2 - 2.0
3 + .1	53 + .2	3 + .1	53 + .1	3 - 0.1
4 + .1	54 + 1.8	4 + .1	54 + .7	4 - 5.1
5 + .2	55 + 1.3	5 + .1	55 + .9	5 - 3.9
6 + .2	56 + .7	6 + .1	56 + .3	6 + .2
7 + .2	57 + .2	7 + .1	57 + .1	7 + .2
8 + .2	58 + .2	8 + .1	58 + .1	8 + 1.4
9 + .1	59 + .2	9 + .1	59 + .1	9 + 5.2
10 - 1.4	60 + .2	10 + .5	60 + .1	10 + 6.7
11 + 0	61 + .3	11 + .8	61 + .1	11 - .1
12 + 0	62 + .5	12 + .1	62 + .5	12 - 2.5
13 - .1	63 + .7	13 + 0	63 + .9	13 - 3.0
14 - .1	64 + .7	14 + 1.3	64 + 1.0	14 - 2.5
15 + 0	65 + .7	15 + .1	65 + 1.0	15 + .5
16 + 0	66 + .6	16 + .1	66 + .9	16 + .1
17 + 0	67 + .2	17 + .2	67 + 1.7	17 + .7
18 + 0	68 + .2	18 + .2	68 + 1.9	18 + 3.4
19 + 0	69 + .3	19 + .2	69 + 1.6	19 + 5.9
20 + 0	70 + .1	20 + .2	70 + .1	20 + .3
21 + 0	71 + .1	21 + .2	71 + .1	21 - 3.6
22 + 0	72 + .1	22 + .3	72 + .1	22 - 3.4
23 + 0	73 + .1	23 + .3	73 + .1	23 - 3.3
24 + 0	74 + .1	24 + .3	74 + .1	24 - 2.9
25 + 0	75 + .1	25 + .3	75 + .1	25 - 2.5
26 + 0	76 + .1	26 + .3	76 + .1	26 - 2.1
27 + 0	77 + .3	27 + .3	77 + 1.6	27 - 1.8
28 + 0	78 + .3	28 + .3	78 + 2.2	28 - 1.2
29 + 0	79 + .3	29 + .3	79 + 2.4	29 + 3.6
30 + 0	80 + .3	30 + .3	80 + 2.0	30 + .1
31 + 0	81 + .6	31 + .3	81 + .5	
32 + 0	82 + .9	32 + .3	82 + .6	Seq. 5
33 + 0	83 + 1.3	33 + .2	83 + .2	
34 + 0	84 + .1	34 + .1	84 + .5	
35 + 0	85 + .1	35 + .1	85 + .9	
36 + 0	86 + .1	36 + .1	86 + 1.0	
37 + 0	87 + .3	37 + .1	87 + .8	
38 + 0	88 + .2	38 + 0	88 + .6	
39 + 0	89 + .8	39 + 0	89 + .1	
40 + 0	90 + .4	40 + 0	90 + .2	
41 + 0	91 + .1	41 + 0	91 + .6	
42 + 0	92 + .1	42 + 0	92 + .8	
43 + 0	93 + .1	43 + 0	93 + .1	
44 + 0	94 + .1	44 + 0	94 + .1	
45 + 0	95 + .1	45 + 0	95 + .1	
46 + 0	96 + .1	46 + 0	96 + .1	
47 + 0	97 + .1	47 + 0	97 + .2	
48 + 0	98 + .1	48 + 0	98 + .2	
49 + 0	99 + .1	49 + 0	99 + .5	
50 + 0	100 + .1	50 + 0	100 + .1	

1777 .05 0° .30 0 10.0 0° 1.010 2026.2 .002203

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + .2	2 + 0	52 + .8	2 - 3.7
3 + 0	53 + .1	3 + 0	53 + .2	3 - 3.8
4 + 0	54 + .9	4 + .1	54 + 1.5	4 - 3.7
5 + 0	55 + 1.0	5 + .1	55 + 2.3	5 - 3.2
6 + 0	56 + 1.0	6 + .1	56 + 1.0	6 + .2
7 + 0	57 + .1	7 + .1	57 + 1.1	7 + .3
8 + 0	58 + .2	8 + .1	58 + 1.3	8 + 2.3
9 + 0	59 + .1	9 + .1	59 + 1.4	9 + 8.0
10 + 0	60 + .2	10 + .1	60 + .8	10 + 9.7
11 + 0	61 + .3	11 + .7	61 + .8	11 + .1
12 + 0	62 + .7	12 + .1	62 + 1.0	12 + 1.5
13 + 0	63 + 1.0	13 + .1	63 + 1.4	13 + 1.6
14 + 0	64 + .9	14 + 1.0	64 + 1.6	14 + 1.6
15 + 0	65 + .9	15 + .1	65 + 1.7	15 + .4
16 + 0	66 + .9	16 + .1	66 + 1.9	16 + .2
17 + 0	67 + .0	17 + .1	67 + 2.0	17 + .4
18 + 0	68 + .7	18 + .1	68 + 2.9	18 + 4.9
19 + 0	69 + .5	19 + .1	69 + 1.8	19 + 9.0
20 + 0	70 + .2	20 + .1	70 + .1	20 + .1
21 + 0	71 + .2	21 + .1	71 + .2	21 + 3.5
22 + 0	72 + .2	22 + .1	72 + .2	22 + 0.9
23 + 0	73 + .1	23 + .1	73 + .2	23 + 6.5
24 + 0	74 + .2	24 + .5	74 + .4	24 + 4.4
25 + 0	75 + .2	25 + .1	75 + .9	25 + .1
26 + 0	76 + .2	26 + .1	76 + .8	26 + 2.0
27 + 0	77 + .5	27 + .1	77 + 1.6	27 + .5
28 + 0	78 + .6	28 + .1	78 + 1.6	28 + 3.1
29 + 0	79 + .7	29 + .1	79 + 1.7	29 + 5.4
30 + 0	80 + .0	30 + .1	80 + 1.1	30 + .1
31 + 0	81 + .8	31 + .1	81 + 1.5	
32 + 0	82 + 1.1	32 + .1	82 + 1.5	Seq. 5
33 + 0	83 + 1.2	33 + .1	83 + 1.5	
34 + 0	84 + .1	34 + .1	84 + 1.5	
35 + 0	85 + .2	35 + .1	85 + 1.5	
36 + 0	86 + .3	36 + .1	86 + 1.5	
37 + 0	87 + .0	37 + .1	87 + 1.7	
38 + 0	88 + .9	38 + .1	88 + .7	
39 + 0	89 + 1.0	39 + .1	89 + .4	
40 + 0	90 + .1	40 + .1	90 + .5	
41 + 0	91 + .1	41 + .1	91 + .5	
42 + 0	92 + .1	42 + .1	92 + 1.0	
43 + 0	93 + .2	43 + .1	93 + .1	
44 + 0	94 + .1	44 + .1	94 + .2	
45 + 0	95 + .1	45 + .1	95 + .2	
46 + 0	96 + .1	46 + .1	96 + .2	
47 + 0	97 + .2	47 + .1	97 + .3	
48 + 0	98 + .1	48 + .1	98 + .5	
49 + 0	99 + .1	49 + .1	99 + .1	
50 + 0	100 + .1	50 + .1	100 + .1	

1778	.05	0°	.30	0	10.0	-2.5°	1.010	2026.2	.002203
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a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .1	52 + .2	2 - .1	52 + 1.9	2 + .2
3 + .1	53 + .2	3 - .1	53 + .1	3 + .1
4 + .1	54 + .4	4 - .1	54 + .0	4 + .1
5 + .1	55 + .4	5 - .1	55 + 1.1	5 + .1
6 + .1	56 + .4	6 - .1	56 + .2	6 + .1
7 + 0	57 + .3	7 - .1	57 + .4	7 + .2
8 + 0	58 + .3	8 - .1	58 + 1.3	8 + .3
9 + 0	59 + .1	9 - .1	59 + 1.5	9 + 5.0
10 + 0	60 + .1	10 - .1	60 + 1.5	10 + 7.6
11 + 0	61 + .2	11 - .1	61 + .1	11 + .1
12 + 0	62 + .2	12 - .1	62 + .5	12 + 4.1
13 + 0	63 + .3	13 - .1	63 + .0	13 + 4.1
14 + 0	64 + .3	14 - .1	64 + .9	14 + 3.3
15 + 0	65 + .3	15 - .1	65 + .9	15 + .4
16 + 0	66 + .1	16 - .1	66 + 1.3	16 + .1
17 + 0	67 + .1	17 - .1	67 + 1.7	17 + 1.8
18 + 0	68 + .1	18 - .1	68 + 1.9	18 + 1.1
19 + 0.	69 + .2	19 - .1	69 + 1.4	19 + 9.5
20 + 0	70 + .1	20 - .1	70 + .2	20 + .1
21 + 0	71 + .1	21 - .1	71 + .2	21 + 4.0
22 + 0	72 + .1	22 - .1	72 + .2	22 + 7.8
23 + 0	73 + .1	23 - .1	73 + .2	23 + 1.9
24 + 0	74 + .1	24 + .4	74 + .2	24 + 4.9
25 + 0	75 + .1	25 + 0	75 + .1	25 + .5
26 + 0	76 + .1	26 - .1	76 + .2	26 + 4.1
27 + 0	77 + .2	27 - .1	77 + .1	27 + 1.0
28 + 0	78 + .4	28 - .1	78 + .1	28 + 3.1
29 + 0	79 + .0	29 - .1	79 + .3	29 + 5.9
30 + 0	80 + .7	30 + 0	80 + .5	30 + .1
31 + 0	81 + .7	31 - .1	81 + .4	
32 + 0	82 + .8	32 - .1	82 + .0	Seq. 5
33 + 0	83 + .9	33 - .1	83 + .0	
34 + 0	84 + .1	34 - .1	84 + .5	
35 + 0	85 + .1	35 - .1	85 + .7	
36 + 0	86 + .1	36 - .1	86 + .8	
37 + 0	87 + .2	37 - .1	87 + 1.1	
38 + 0	88 + .4	38 - .1	88 + .6	
39 + 0	89 + .1	39 - .1	89 + .8	
40 + 0	90 + .1	40 - .1	90 + .4	
41 + 0	91 + .1	41 - .1	91 + .5	
42 + 0	92 + .1	42 - .1	92 + 1.3	
43 + 0	93 + .1	43 - .1	93 + .2	
44 + 0	94 + .2	44 - .1	94 + .1	
45 + 0	95 + .2	45 - .1	95 + .1	
46 + 0	96 + .2	46 - .1	96 + .2	
47 + 0	97 + .2	47 - .1	97 + .2	
48 + 0	98 + .2	48 - .1	98 + .3	
49 + 0	99 + .2	49 - .1	99 + .5	
50 + 0	100 + .2	50 - .1	100 + .1	

	1788	.05	0°	.30	0	10.0	+2.5°	1.049	2024.8	.002143
a) 1 + 0	51	+	.1) 1 - .1	51	+	.2	c) 1 - .2	
2 + 0	52	+	.0		2 - .1	52	+	1.2	2 - 12.9	
3 + 0	53	+	.1		3 - .1	53	+	.9	3 - 20.0	
4 + 0	54	+	7.0		4 - .1	54	+	1.7	4 - 18.0	
5 + 0	55	+	5.2		5 - 0	55	+	1.8	5 - 9.4	
6 + 0	56	+	5.4		6 - .1	56	+	1.0	6 - 4.1	
7 + 0	57	+	5.5		7 - .1	57	+	.0	7 - 1.1	
8 + 0	58	+	5.0		8 - .3	58	+	.1	8 - 17.1	
9 + 0	59	+	2.0		9 - .4	59	+	.0	9 - 31.1	
10 + .5	60	+	3.3		10 - 2.9	60	+	.0	10 - 37.0	
11 + .1	61	+	5.5		11 - 5.2	61	+	1.4	11 - 7.4	
12 + .1	62	+	5.2		12 - .1	62	+	2.0	12 - 12.0	
13 + .1	63	+	1.3		13 - .0	63	+	4.0	13 - 12.8	
14 + .1	64	+	2.8		14 - 7.7	64	+	4.1	14 - 9.3	
15 + 0	65	+	5.4		15 - .1	65	+	5.3	15 - 3.6	
16 + 0	66	+	2.5		16 - .1	66	+	7.	16 - 6.8	
17 + 0	67	+	.1		17 - .1	67	+	8.1	17 - 4.6	
18 + 0	68	+	3.4		18 - .1	68	+	9.1	18 - 24.5	
19 + 0	69	+	5.5		19 - .1	69	+	7.1	19 - 37.0	
20 + .1	70	+	1.5		20 - .1	70	+	2.6	20 - .2	
21 + .1	71	+	.1		21 - 0	71	+	2.6	21 - 1.7	
22 + .1	72	+	1.5		22 - 0	72	+	2.1	22 - 4.2	
23 + .1	73	+	4.8		23 - 0	73	+	2.1	23 - 5.0	
24 + .1	74	+	2.0		24 - 3.5	74	+	1.2	24 - 4.4	
25 + .1	75	+	.8		25 - .1	75	+	1.9	25 - .8	
26 + .1	76	+	2.0		26 - .1	76	+	4.2	26 - 1.6	
27 + .1	77	+	0.4		27 - .1	77	+	10.5	27 - 1.1	
28 + .1	78	+	2.2		28 - .1	78	+	11.3	28 - 6.9	
29 + .1	79	+	.1		29 - .1	79	+	11.2	29 - 23.1	
30 + .1	80	+	2.7		30 - .1	80	+	0.6	30 - .1	
31 + .1	81	+	6.2		31 - .1	81	+	3.4		
32 + .1	82	+	7.2		32 - .1	82	+	3.0		Seq. 5
33 + .1	83	+	11.8		33 - .1	83	+	3.5		
34 + .1	84	+	1.3		34 - .1	84	+	4.0		
35 + .1	85	+	1.4		35 - .1	85	+	6.0		
36 + .1	86	+	2.5		36 - .1	86	+	6.6		
37 + .1	87	+	5.2		37 - .1	87	+	1.2		
38 + .1	88	+	2.0		38 - .1	88	+	2.2		
39 + .1	89	+	12.1		39 - .1	89	+	.2		
40 + .1	90	+	5.0		40 - .1	90	+	4.3		
41 + .1	91	+	1.1		41 - .1	91	+	5.7		
42 + .1	92	+	.2		42 - .1	92	+	6.9		
43 + .1	93	+	4.8		43 - .1	93	+	.9		
44 + .1	94	+	2.5		44 - .1	94	+	1.0		
45 + .1	95	+	3.7		45 - .1	95	+	2.9		
46 + .1	96	+	4.8		46 - .1	96	+	5.0		
47 + .1	97	+	3.5		47 - .1	97	+	4.0		
48 + .1	98	+	.1		48 - .1	98	+	4.8		
49 + .1	99	+	.1		49 - .1	99	+	5.9		
50 + .1	100	+	.1		50 - .1	100	+	.1		

1789	.05	0°	.30	0	10.0	0°	1.049	2024.8	.002143
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a) 1 - .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 - .1	52 + .5	2 + 0	52 + .6	2 - 8.7
3 - .1	53 + .2	3 + .4	53 + .1	3 - 15.0
4 - .1	54 + 4.3	4 + .1	54 + 6.0	4 - 13.9
5 - .1	55 + 2.8	5 + .1	55 + 7.1	5 - 8.3
6 - .1	56 + 3.3	6 + .1	56 + 4.3	6 + 2.9
7 - .1	57 + 3.7	7 + 0	57 + 5.7	7 - 4.1
8 - .1	58 + 3.8	8 + 0	58 + 5.9	8 + 7.7
9 - .1	59 + 2.5	9 + .4	59 + 4.5	9 + 25.5
10 + 3.2	60 + 2.9	10 + .6	60 + 3.4	10 + 35.9
11 - .1	61 + 3.8	11 + 7.0	61 + 2.8	11 - 5.5
12 - .1	62 + 4.0	12 + 0	62 + 3.0	12 - 11.4
13 - .1	63 + 3.4	13 + .4	63 + 3.6	13 - 12.6
14 - .1	64 + 3.6	14 + 7.2	64 + 5.0	14 - 9.3
15 - .1	65 + 4.2	15 + .1	65 + 6.6	15 + 3.0
16 - .1	66 + 4.0	16 + 0	66 + 7.8	16 - 5.7
17 - .1	67 + 2.5	17 + 0	67 + 7.7	17 + 5.2
18 - .1	68 + 3.5	18 + .1	68 + 6.6	18 + 25.9
19 - .1	69 + 4.4	19 + .2	69 + 4.2	19 + 40.0
20 - .1	70 - 2.4	20 + 0	70 + 1.3	20 + .2
21 - .1	71 + 2.1	21 + 0	71 + 1.7	21 - 8.6
22 - .1	72 + 2.2	22 + 0	72 + 1.8	22 - 14.2
23 - .1	73 + 3.6	23 + .6	73 + 2.3	23 - 13.9
24 - .1	74 + 3.0	24 + 6.9	74 + 4.1	24 - 7.6
25 - .1	75 + 1.4	25 + 0	75 + 5.9	25 + 3.3
26 - .1	76 + 2.1	26 + 0	76 + 7.0	26 - 5.9
27 - .1	77 + 4.1	27 + .8	77 + 7.2	27 + 4.3
28 - .1	78 + 3.6	28 + .1	78 + 5.0	28 + 15.9
29 - .1	79 + 3.1	29 + .1	79 + 4.6	29 + 29.4
30 - .1	80 + 3.6	30 + 0	80 + 3.0	30 + .2
31 - .1	81 + 4.6	31 + 0	81 + 3.1	
32 - .1	82 + 5.1	32 + 0	82 + 3.0	Seq. 5
33 - .1	83 + 6.0	33 + 0	83 + 3.2	
34 - .1	84 + .3	34 + 0	84 + 3.7	
35 - .1	85 + 2.0	35 + 0	85 + 4.2	
36 - .1	86 + 2.9	36 + 0	86 + 4.4	
37 - .1	87 + 4.0	37 + .1	87 + 6.6	
38 - .1	88 + 5.6	38 + .4	88 + 2.4	
39 - .1	89 + 6.0	39 + 1.1	89 + 2.4	
40 - .1	90 + 1.4	40 + 0	90 + 3.0	
41 - .1	91 + 1.5	41 + 0	91 + 3.7	
42 - .1	92 + .1	42 + 0	92 + 6.3	
43 - .1	93 + 3.5	43 + 0	93 + 2.1	
44 - .1	94 + 2.8	44 + 0	94 + 2.0	
45 - .1	95 + 2.9	45 + 0	95 + 2.4	
46 - .1	96 + 3.2	46 + 0	96 + 3.1	
47 - .1	97 + 1.9	47 + 0	97 + 3.3	
48 - .1	98 + .1	48 + 0	98 + 3.7	
49 - .1	99 + .1	49 + 0	99 + 4.1	
50 - .1	100 + .1	50 + 0	100 + .1	

1790 .05 0° .30 0 10.0 -2.5° 1.049 2024.8 .002143

a) 1 - .1	51 + .1	b) 1 + .1	51 + .1	c) 1 + .2
2 - .1	52 + .3	2 + .1	52 + .3	2 - .7
3 - .1	53 + .2	3 + .1	53 + .1	3 - 4.5
4 - .1	54 + 2.5	4 + 0	54 + 1.8	4 - 5.0
5 - .1	55 + .2	5 + 0	55 + 3.4	5 - 3.6
6 - .1	56 + 2.4	6 + 0	56 + 2.8	6 + 1.5
7 - .1	57 + 4.8	7 + 0	57 + 6.1	7 - 2.0
8 - .1	58 + 1.8	8 + 0	58 + 10.0	8 + .5
9 - .1	59 + .1	9 + 0	59 + 10.1	9 + 15.2
10 + 1.6	60 + 1.5	10 + 0	60 + 7.5	10 + 29.0
11 - .1	61 + 5.8	11 + 2.4	61 + 2.9	11 - 10.4
12 - .1	62 + 3.6	12 + 0	62 + 3.4	12 - 16.9
13 - .1	63 + .6	13 + .2	63 + 3.5	13 - 17.5
14 - .1	64 + 2.8	14 + 3.8	64 + 3.6	14 - 11.4
15 - .1	65 + 6.0	15 + 0	65 + 6.2	15 + 2.9
16 - .1	66 + 2.8	16 + 0	66 + 8.9	16 - 4.9
17 - .1	67 + .1	17 + 0	67 + 9.8	17 + 12.0
18 - .1	68 + 3.1	18 + 0	68 + 8.9	18 + 31.4
19 - .1	69 + 5.9	19 + 1	69 + 5.7	19 + 40.9
20 - .1	70 + 2.3	20 + .1	70 + 1.1	20 + .2
21 - .1	71 + .2	21 + .1	71 + 1.3	21 - 13.5
22 - .1	72 + 1.6	22 + .1	72 + .8	22 - 20.4
23 - .1	73 + 5.0	23 + .4	73 + 1.3	23 - 19.1
24 - .1	74 + 5.2	24 + 7.2	74 + .2	24 - 11.2
25 - .1	75 + 1.6	25 + 0	75 + .2	25 + 4.2
26 - .1	76 + 2.7	26 + .1	76 + .2	26 - 3.2
27 - .1	77 + 5.9	27 + .1	77 + .2	27 + 12.5
28 - .1	78 + 6.4	28 + .2	78 + .2	28 + 1.6
29 - .1	79 + 4.8	29 + .2	79 + .5	29 + 32.4
30 - .1	80 + 5.2	30 + 2.9	80 + 8	30 + .1
31 - .1	81 + 6.5	31 + 0	81 + 1.6	
32 - .1	82 + 7.4	32 + 0	82 + 2.0	Seq. 5
33 - .1	83 + 6.4	33 + 0	83 + 3.0	
34 - .1	84 + .1	34 + .1	84 + 3.3	
35 - .1	85 + 1.2	35 + .2	85 + 4.6	
36 - .1	86 + 3.2	36 + .5	86 + 5.4	
37 - .1	87 + 5.1	37 + 1.0	87 + 12.8	
38 - .1	88 + 5.5	38 + 1.0	88 + 1.5	
39 - .1	89 + .3	39 + 1.0	89 + 5.3	
40 - .1	90 + 1.2	40 + 0	90 + 2.6	
41 - .1	91 + 1.0	41 + 0	91 + 4.5	
42 - .1	92 + .1	42 + 0	92 + 12.1	
43 - .1	93 + 5.3	43 + 0	93 + 4.0	
44 - .1	94 + 3.7	44 + 0	94 + .6	
45 - .1	95 + 4.5	45 + 0	95 + 2.0	
46 - .1	96 + 5.1	46 + 0	96 + 4.1	
47 - .1	97 + 3.7	47 + 0	97 + 3.6	
48 - .1	98 + .1	48 + 0	98 + 4.3	
49 - .1	99 + .1	49 + 0	99 + 5.4	
50 - .1	100 + .1	50 + 0	100 + .1	

1809	.05	0°	.25	0	10.0	$+2.5^\circ$	1.010	2019.8	.002184
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a) 1 - .1		51 + .1	b) 1 + 0		51 + .3	c) 1 + .2			
2 + 0		52 + .6	2 + 0		52 + .9	2 - .6			
3 + 0		53 + .1	3 + 0		53 + .2	3 - 3.1			
4 + 0		54 + 2.0	4 + 0		54 + 1.2	4 - 2.7			
5 + 0		55 + 1.7	5 + 0		55 + 1.4	5 - 1.0			
6 + 0		56 + .8	6 + 0		56 + .6	6 + 1.4			
7 + 0		57 + .6	7 + .1		57 + .1	7 + .8			
8 + 0		58 + .8	8 + .2		58 + .3	8 + 3.7			
9 + 0		59 + .2	9 + .2		59 + .4	9 + 8.0			
10 + 0		60 + .2	10 + .2		60 + .2	10 + 9.8			
11 + 0		61 + .5	11 + 1.2		61 + .2	11 + .2			
12 - .1		62 + 1.1	12 + .1		62 + .9	12 - .1			
13 - .1		63 + 1.2	13 + 0		63 + 1.2	13 - .3			
14 - .1		64 + 1.3	14 + 1.2		64 + 1.3	14 - .3			
15 - .1		65 + 1.3	15 + 0		65 + 1.3	15 + 1.7			
16 - .1		66 + 1.0	16 + 0		66 + 1.8	16 + .9			
17 - .1		67 + .4	17 + 0		67 + 1.9	17 + 1.8			
18 - .1		68 + .9	18 + 0		68 + 2.0	18 + 7.2			
19 - .1		69 + 1.0	19 + 0		69 + .7	19 + 8.9			
20 - .1		70 + .1	20 + 0		70 + .1	20 + .1			
21 - .1		71 + .1	21 + 0		71 + .1	21 + .1			
22 - .1		72 + .1	22 + 0		72 + .2	22 - .1			
23 - .1		73 + .3	23 + 0		73 + .2	23 - .8			
24 - .1		74 + .2	24 + .4		74 + .2	24 - .7			
25 - .1		75 + .7	25 + .1		75 + .2	25 + .3			
26 - .1		76 + .2	26 + 0		76 + .4	26 + .2			
27 - .1		77 + 1.0	27 + .1		77 + 1.7	27 + .3			
28 - .1		78 + .3	28 + 0		78 + 1.4	28 + 2.4			
29 - .1		79 + .3	29 + 0		79 + 2.1	29 + 4.5			
30 - .1		80 + .7	30 + 0		80 + 1.1	30 + .1			
31 - .1		81 + 1.1	31 + 0		81 + .8				
32 - .1		82 + 1.4	32 + 0		82 + .9	Seq. 5			
33 - .1		83 + 2.0	33 + 0		83 + .7				
34 - .1		84 + .1	34 + 0		84 + .8				
35 - .1		85 + .1	35 + 0		85 + 1.0				
36 - .1		86 + .2	36 + 0		86 + 1.1				
37 - .1		87 + .7	37 + 0		87 + .7				
38 - .1		88 + .5	38 + 0		88 + .7				
39 - .1		89 + 1.7	39 + 0		89 + .1				
40 - .1		90 + .1	40 + 0		90 + .2				
41 - .1		91 + .2	41 + 0		91 + .6				
42 - .1		92 + .2	42 + 0		92 + .9				
43 - .1		93 + .2	43 + 0		93 + .2				
44 - .1		94 + 1	44 + 0		94 + .2				
45 - .1		95 + .1	45 + 0		95 + .2				
46 - .1		96 + .1	46 + 0		96 + .2				
47 - .1		97 + .1	47 + 0		97 + .4				
48 - .1		98 + .1	48 + 0		98 + .2				
49 - .1		99 + .1	49 + 0		99 + .6				
50 - .1		100 + .1	50 + 0		100 + .1				

1810 .05 0° .25 0 10.0 0° 1.011 2019.8 .002184

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + .6	2 + 0	52 + .7	2 - 1.8
3 + 0	53 + .1	3 + 0	53 + .1	3 - 2.5
4 + 0	54 + 1.6	4 + 0	54 + 1.9	4 - 2.6
5 + 0	55 + 1.8	5 + 0	55 + 2.4	5 - 1.5
6 + 0	56 + 1.5	6 + 0	56 + 1.2	6 + .6
7 + 0	57 + .3	7 + 0	57 + .4	7 + .2
8 + 0	58 + .5	8 + 0	58 + 1.1	8 + 2.4
9 + 0	59 + .5	9 + 0	59 + .7	9 + 6.4
10 + .6	60 + .5	10 + 0	60 + .7	10 + 8.3
11 + 0	61 + .7	11 + 1.4	61 + .7	11 + .2
12 + 0	62 + 1.3	12 + 0	62 + 1.1	12 - 1.1
13 + 0	63 + 1.5	13 + 0	63 + 1.4	13 - 1.8
14 + 0	64 + 1.5	14 + 1.4	64 + 1.5	14 - 1.5
15 + 0	65 + 1.4	15 + 0	65 + 1.5	15 + .5
16 + 0	66 + 1.4	16 + 0	66 + 1.7	16 + .3
17 + 0	67 + 1.4	17 + 0	67 + 1.8	17 + 1.6
18 + 0	68 + 1.4	18 + 0	68 + 1.9	18 + 5.8
19 + 0	69 + 1.2	19 + 0	69 + .8	19 + 8.7
20 + 0	70 + .1	20 + 0	70 + .1	20 - .1
21 + 0	71 + .1	21 + 0	71 + .1	21 - 1.8
22 + 0	72 + .1	22 + 0	72 + .2	22 - 4.5
23 + 0	73 + .3	23 + 0	73 + .2	23 - 3.9
24 + 0	74 + .4	24 + 1.2	74 + .3	24 - 2.8
25 + 0	75 + .1	25 + 0	75 + .5	25 - .2
26 + 0	76 + .1	26 + 0	76 + .8	26 - 2.5
27 + 0	77 + .5	27 + 0	77 + 1.2	27 + .7
28 + 0	78 + .7	28 + 0	78 + .9	28 + 2.7
29 + 0	79 + .9	29 + 0	79 + 1.1	29 + 5.7
30 + 0	80 + 1.1	30 + 0	80 + 1.3	30 + .1
31 + 0	81 + 1.1	31 + 0	81 + 1.0	
32 + 0	82 + 1.2	32 + 0	82 + 1.0	Seq. 5
33 + 0	83 + 1.4	33 + 0	83 + 1.0	
34 + 0	84 + .4	34 + 0	84 + 1.0	
35 + 0	85 + .5	35 + 0	85 + .9	
36 + 0	86 + .6	36 + 0	86 + .9	
37 + 0	87 + .8	37 + 0	87 + 1.4	
38 + 0	88 + .9	38 + 0	88 + .8	
39 + 0	89 + 1.0	39 + 0	89 + .4	
40 + 0	90 + .1	40 + 0	90 + .4	
41 + 0	91 + .1	41 + 0	91 + .4	
42 + 0	92 + .1	42 + 0	92 + 1.0	
43 + 0	93 + .3	43 + 0	93 + .5	
44 + 0	94 + .4	44 + 0	94 + .2	
45 + 0	95 + .2	45 + 0	95 + .2	
46 + 0	96 + .2	46 + 0	96 + .2	
47 + 0	97 + .2	47 + 0	97 + .2	
48 + 0	98 + .2	48 + 0	98 + .3	
49 + 0	99 + .2	49 + 0	99 + .3	
50 + 0	100 + .2	50 + 0	100 + .2	

1811	.05	0°	.25	0	10.0	-2.5°	1.010	2019.8	.002184
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a) 1 + .1	51 + .2	b) 1 - .1	51 + .2	c) 1 + .1
2 + 0	52 + .9	2 - .1	52 + .3	2 + .1
3 + 0	53 + .2	3 - .1	53 + .1	3 + .1
4 + 0	54 + 1.7	4 - .1	54 + .9	4 + .1
5 + 0	55 + 1.5	5 - .1	55 + 1.5	5 + .1
6 + 0	56 + 1.4	6 - .1	56 + .7	6 + .1
7 + 0	57 + 1.4	7 - .1	57 + .7	7 + .1
8 + 0	58 + 1.4	8 - .1	58 + 1.8	8 + .5
9 + 0	59 + .1	9 - .1	59 + 2.0	9 + 3.4
10 + .2	60 + .6	10 - .1	60 + .8	10 + 6.8
11 + .1	61 + 1.3	11 - .1	61 + .1	11 + .6
12 + .1	62 + 1.5	12 - .1	62 + .6	12 + 2.5
13 + .1	63 + 1.6	13 - .1	63 + 1.0	13 + 2.7
14 + .1	64 + 1.6	14 - .2	64 + 1.1	14 + 2.1
15 + .1	65 + 1.7	15 - .1	65 + 1.1	15 + .8
16 + 0	66 + 1.7	16 - .1	66 + 1.6	16 + .1
17 + 0	67 + .9	17 - .1	67 + 1.8	17 + 1.3
18 + 0	68 + 1.4	18 - .1	68 + 1.9	18 + 6.5
19 + 0	69 + 1.6	19 - .1	69 + 1.0	19 + 9.0
20 + 0	70 + .1	20 - .1	70 + .6	20 + .1
21 + 0	71 + .2	21 - .1	71 + .2	21 + 4.1
22 + 0	72 + .3	22 - .1	72 + .2	22 + 5.6
23 + 0	73 + .7	23 - .1	73 + .2	23 + 5.2
24 + 0	74 + .8	24 - .8	74 + .2	24 + 3.8
25 + 0	75 + .3	25 - 0	75 + .2	25 + .2
26 + 0	76 + .3	26 - .1	76 + .2	26 + 1.8
27 + 0	77 + 1.1	27 - .1	77 + .2	27 + 1.4
28 + 0	78 + 1.4	28 - .1	78 + .4	28 + 3.8
29 + 0	79 + 1.6	29 - .1	79 + .6	29 + 6.3
30 + 0	80 + 1.7	30 - .1	80 + .6	30 + .1
31 + 0	81 + 1.8	31 - 0	81 + .6	
32 + 0	82 + 2.0	32 - .1	82 + .6	Seq. 5
33 + 0	83 + 2.0	33 - .1	83 + .6	
34 + 0	84 + 1	34 - .1	84 + .6	
35 + 0	85 + .5	35 + .2	85 + .6	
36 + 0	86 + .8	36 - .1	86 + .7	
37 + 0	87 + 1.3	37 - .1	87 + 2.5	
38 + 0	88 + 1.6	38 + 0	88 + .2	
39 + 0	89 + 6	39 + 0	89 + .2	
40 + 0	90 + .1	40 - .1	90 + .1	
41 + 0	91 + .2	41 - .1	91 + .2	
42 + 0	92 + .1	42 - .1	92 + 1.3	
43 + 0	93 + 7	43 - .1	93 + .1	
44 + 0	94 + .5	44 - .1	94 + .1	
45 + 0	95 + .5	45 - .1	95 + .1	
46 + 0	96 + .5	46 - .1	96 + .1	
47 + 0	97 + .6	47 - .1	97 + .1	
48 + 0	98 + .3	48 - .1	98 + .1	
49 + 0	99 + 1	49 - .1	99 + .3	
50 + 0	100 + 1	50 - .1	100 + .2	

1830	.05	0°	.25	0	10.0	-2.5°	1.049	2019.8	.002111
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a) 1 + 0	51 + .2	b) 1 + .1	51 + .1	c) 1 + .2
2 + 0	52 + 1.1	2 + 0	52 + 1.4	2 + 1.7
3 + 0	53 + .1	3 + 0	53 + .3	3 + 5.2
4 + 0	54 + 3.2	4 + 0	54 + 2.8	4 + 5.8
5 + 0	55 + 1.0	5 + 0	55 + 4.7	5 + 3.5
6 + 0	56 + 4.2	6 + 0	56 + 3.4	6 + 1.0
7 + 0	57 + 5.9	7 + 0	57 + 8.9	7 + 2.0
8 + 0	58 + 2.5	8 + 0	58 + 13.5	8 + .2
9 + 0	59 + .1	9 + 0	59 + 11.8	9 + 15.8
10 + 5.4	60 + 3.1	10 + .2	60 + 7.9	10 + 30.7
11 + 0	61 + 6.4	11 + 2.8	61 + 3.9	11 + 10.4
12 + .1	62 + 3.0	12 + 0	62 + 4.4	12 + 15.5
13 + .1	63 + 1.4	13 + .3	63 + 4.7	13 + 17.0
14 + .2	64 + 4.1	14 + 4.6	64 + 5.1	14 + 11.2
15 + .2	65 + 6.9	15 + .1	65 + 7.8	15 + 2.7
16 + .2	66 + 3.3	16 + .2	66 + 11.9	16 + 6.2
17 + .2	67 + 1.0	17 + .2	67 + 12.1	17 + 11.0
18 + .2	68 + 4.3	18 + .3	68 + 9.1	18 + 31.3
19 + .2	69 + 6.2	19 + .2	69 + 5.3	19 + 42.3
20 + .2	70 + 2.8	20 + .2	70 + 1.4	20 + .1
21 + .2	71 + .8	21 + 0	71 + 1.6	21 + 13.1
22 + .2	72 + 3.1	22 + 0	72 + 1.6	22 + 20.5
23 + .2	73 + 5.8	23 + .4	73 + 2.6	23 + 14.3
24 + .2	74 + 5.0	24 + 6.4	74 + 1.6	24 + 11.3
25 + .2	75 + 2.1	25 + 0	75 + 1.3	25 + 3.9
26 + .2	76 + 3.8	26 + .1	76 + 1.4	26 + 4.1
27 + .2	77 + 6.3	27 + .1	77 + 1.8	27 + 13.2
28 + .2	78 + 7.3	28 + .2	78 + 1.9	28 + 21.7
29 + .2	79 + 4.9	29 + .6	79 + 2.5	29 + 32.7
30 + .2	80 + 5.4	30 + 1.7	80 + 2.5	30 + .1
31 + .2	81 + 6.7	31 + 0	81 + 2.9	
32 + .2	82 + 7.7	32 + .2	82 + 3.7	Seq. 5
33 + .2	83 + 7.3	33 + .3	83 + 3.9	
34 + .2	84 + .5	34 + .3	84 + 4.5	
35 + .2	85 + 2.7	35 + 1.3	85 + 5.8	
36 + .2	86 + 4.8	36 + .4	86 + 6.0	
37 + .2	87 + 6.5	37 + 1.3	87 + 16.2	
38 + .2	88 + 7.1	38 + 1.9	88 + 2.7	
39 + .2	89 + 2.6	39 + 2.0	89 + 5.1	
40 + .2	90 + .2	40 + 0	90 + 3.7	
41 + .2	91 + 2.4	41 + 0	91 + 5.9	
42 + .2	92 + .1	42 + 0	92 + 14.1	
43 + .2	93 + 6.0	43 + 0	93 + 6.1	
44 + .2	94 + 4.2	44 + 0	94 + 1.0	
45 + .2	95 + 4.9	45 + 0	95 + 3.4	
46 + .2	96 + 5.8	46 + 0	96 + 5.4	
47 + .2	97 + 3.0	47 + 0	97 + 4.4	
48 + .2	98 + .1	48 + 0	98 + 5.5	
49 + .2	99 + .1	49 + 0	99 + 6.2	
50 + .2	100 + .1	50 + 0	100 + .1	

	1831	.05	0°	.25	0	10.0	0°	1.049	2019.8	.002111
a) 1 - .1	51	+ .2	b) 1 + 0	51	+ .1	c) 1 + .1	51	+ .1	2 - 8.7	
2 - .1	52	+ 1.5	2 + 0	52	+ 1.2	3 - 15.3	3 - .7			
3 - .1	53	+ .7	3 + 0	53	+ .4	4 - 14.8	4 - 8.5			
4 - .1	54	+ 5.9	4 + 0	54	+ 6.8	5 - 4.1	5 + 4.1			
5 - .1	55	+ 5.1	5 + 0	55	+ 8.6	6 - 5.0	6 + 9.1			
6 - .1	56	+ 5.1	6 + 0	56	+ 5.0	7 - 5.0	7 + 30.5			
7 - .1	57	+ 5.0	7 + 0	57	+ 7.2	8 - 15.3	8 + 4.8			
8 - .1	58	+ 5.1	8 + 0	58	+ 7.2	9 - 10.3	9 + 3.5			
9 - .1	59	+ 3.3	9 + .3	59	+ 5.3	10 + 42.0	10 + 8.6			
10 + 1.8	60	+ 4.3	10 + .5	60	+ 3.5	11 - 7.2	11 - 13.0			
11 - .1	61	+ 5.9	11 + 7.3	61	+ 3.7	12 - 15.3	12 + 5.8			
12 - .1	62	+ 5.5	12 + 0	62	+ 4.5	13 - 10.3	13 + 6.5			
13 - .1	63	+ 4.8	13 + .5	63	+ 5.2	14 - 46.9	14 + 3.6			
14 - .1	64	+ 5.0	14 + 7.5	64	+ 5.8	15 - 5.0	15 + 2.2			
15 - .1	65	+ 5.7	15 + .1	65	+ 7.7	16 - 8.6	16 + 3.9			
16 - .1	66	+ 4.5	16 + 0	66	+ 9.2	17 - 5.8	17 + 30.9			
17 - .1	67	+ 3.3	17 + .1	67	+ 8.8	18 - 16.4	18 + 4.4			
18 - .1	68	+ 4.8	18 + .2	68	+ 6.5	19 - 15.5	19 + 5.2			
19 - .1	69	+ 5.6	19 + .2	69	+ 4.4	20 - 18.5	20 + 35.0			
20 - .1	70	+ 2.9	20 + .1	70	+ 2.3	21 - 9.6	21 + 3.6			
21 - .1	71	+ 3.0	21 + .1	71	+ 2.6	22 - 15.3	22 + 2.9			
22 - .1	72	+ 3.9	22 + 0	72	+ 2.8	23 - 4.1	23 + 2.8			
23 - .1	73	+ 4.7	23 + .5	73	+ 3.3	24 - 9.8	24 + 3.6			
24 - .1	74	+ 4.0	24 + 7.1	74	+ 4.4	25 - 7.1	25 + 5.0			
25 - .1	75	+ 2.5	25 + .2	75	+ 7.1	26 - 7.8	26 + 3.9			
26 - .1	76	+ 3.8	26 + .3	76	+ 8.3	27 - 5.2	27 + 4.1			
27 - .1	77	+ 5.6	27 + .3	77	+ 8.5	28 - 18.5	28 + 3.1			
28 - .1	78	+ 5.3	28 + .1	78	+ 5.7	29 - 35.0	29 + 3.9			
29 - .1	79	+ 4.1	29 + .1	79	+ 5.4	30 - 1.1	30 + 3.6			
30 - .1	80	+ 5.0	30 + .3	80	+ 3.6	31 - 3.9	31 + 4.2			
31 - .1	81	+ 5.8	31 + 0	81	+ 3.9	32 - 4.2	32 + 4.4			
32 - .1	82	+ 6.2	32 + .1	82	+ 4.2	33 - 4.4	33 + 4.7			
33 - .1	83	+ 8.2	33 + .1	83	+ 4.4	34 - 1.2	34 + 5.1			
34 - .1	84	+ 1.2	34 + .1	84	+ 4.7	35 - 4.6	35 + 5.3			
35 - .2	85	+ 3.6	35 + 1.1	85	+ 4.7	36 - 8.7	36 + 5.7			
36 - .1	86	+ 4.6	36 + 0	86	+ 4.0	37 - 8.7	37 + 4.0			
37 - .1	87	+ 5.5	37 + .1	87	+ 4.0	38 - 2.9	38 + 2.9			
38 - .1	88	+ 6.9	38 + .5	88	+ 4.0	39 - 4.1	39 + 4.1			
39 - .1	89	+ 7.9	39 + .7	89	+ 4.6	40 - 4.6	40 + 4.6			
40 - .1	90	+ 2.8	40 + 0	90	+ 4.1	41 - 8.2	41 + 8.2			
41 - .1	91	+ 3.0	41 + 0	91	+ 4.6	42 - 5.7	42 + 5.7			
42 - .1	92	+ .1	42 + 0	92	+ 2.6	43 - 3.6	43 + 3.6			
43 - .1	93	+ 6.1	43 + 0	93	+ 4.3	44 - 4.3	44 + 4.3			
44 - .1	94	+ 4.0	44 + 0	94	+ 4.5	45 - 4.6	45 + 4.6			
46 - .1	95	+ 4.0	45 + 0	95	+ 4.9	47 - 4.5	47 + 4.5			
47 - .1	96	+ 4.6	46 + 0	96	+ 4.6	48 - 4.1	48 + 4.1			
48 - .1	97	+ 2.8	47 + 0	97	+ 4.5	49 - 4.9	49 + 4.9			
49 - .1	98	+ .1	48 + 0	98	+ 4.6	50 - .1	50 + .1			
50 - .1	99	+ .1	49 + 0	99	+ 4.9					
	100	+ .1	50 + 0	100	+ .1					

Seq. 5

1832	.05	0°	.25	0	10.0	+2.5°	1.049	2019.8	.002111
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a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.0	2 + 0	52 + 1.0	2 - 14.6
3 + 0	53 + .1	3 + 0	53 + .1	3 - 24.3
4 + 0	54 + 9.0	4 + 0	54 + 4.2	4 - 21.4
5 + 0	55 + 5.7	5 + .1	55 + 3.4	5 - 12.3
6 + 0	56 + 5.7	6 + .3	56 + 1.0	6 + 4.2
7 + 0	57 + 5.8	7 + .5	57 + .2	7 - 2.8
8 + 0	58 + 6.0	8 + .8	58 + 1.2	8 + 19.1
9 + 0	59 + 2.4	9 + 1.1	59 + 1.3	9 + 36.0
10 + 1.3	60 + 3.8	10 + 2.3	60 + .3	10 + 43.7
11 + 0	61 + 5.9	11 + 7.0	61 + 1.6	11 - 9.6
12 + 0	62 + 4.9	12 + 0	62 + 3.0	12 - 14.5
13 + 0	63 + 2.2	13 + .6	63 + 3.9	13 - 16.7
14 + 0	64 + 4.3	14 + 8.1	64 + 4.0	14 - 11.9
15 + 0	65 + 6.5	15 + .1	65 + 5.8	15 + 2.4
16 + .1	66 + 3.1	16 + .2	66 + 9.0	16 - 8.1
17 + .1	67 + 1.1	17 + .2	67 + 9.6	17 + 3.6
18 + .1	68 + 4.6	18 + .2	68 + 9.1	18 + 27.8
19 + .1	69 + 6.0	19 + .2	69 + 5.7	19 + 43.2
20 + .1	70 + 1.8	20 + .2	70 + 1.8	20 + .1
21 + .1	71 + .3	21 + 0	71 + 1.4	21 - 3.6
22 + 0	72 + 2.7	22 + .1	72 + 1.0	22 - 7.0
23 + 0	73 + 5.9	23 + .1	73 + 2.5	23 - 6.1
24 + 0	74 + 1.9	24 + 4.2	74 + .3	24 - 6.5
25 + 0	75 + .1	25 + 0	75 + 1.3	25 + .2
26 + 0	76 + 2.9	26 + 0	76 + 5.5	26 - 5.4
27 + 0	77 + .5	27 + 0	77 + 12.1	27 - 2.2
28 + 0	78 + 2.0	28 + 0	78 + 13.3	28 + 7.4
29 + 0	79 + .3	29 + 0	79 + 11.4	29 + 25.8
30 + .1	80 + 4.3	30 + 0	80 + .5	30 + .1
31 + .1	81 + 0.6	31 + 0	81 + 3.2	
32 + .1	82 + 7.7	32 + 0	82 + 3.4	
33 + .1	83 + 13.8	33 + 0	83 + 3.5	
34 + .1	84 + 1.0	34 + 0	84 + 4.8	
35 + 0	85 + 1.5	35 + 2.0	85 + .1	
36 + 0	86 + 3.5	36 + 0	86 + 6.7	
37 + 0	87 + 5.9	37 + 0	87 + 2.5	
38 + .1	88 + 2.4	38 + 0	88 + 2.7	
39 + .1	89 + 14.3	39 + 0	89 + .2	
40 + .1	90 + 4.8	40 + 0	90 + 4.1	
41 + .1	91 + 1.4	41 + 0	91 + 5.8	
42 + .1	92 + .2	42 + 0	92 + 7.4	
43 + .1	93 + 5.5	43 + 0	93 + .9	
44 + .1	94 + 3.2	44 + 0	94 + 1.3	
45 + 0	95 + 4.0	45 + 0	95 + 3.7	
46 + 0	96 + 5.3	46 + 0	96 + 5.2	
47 + 0	97 + 3.6	47 + 0	97 + 4.4	
48 + 0	98 + .1	48 + 0	98 + 4.8	
49 + 0	99 + .1	49 + 0	99 + 5.9	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

	1848	.05	0°	.15	0	10.0	+5.0°	1.010	2027.6	.002260
a) 1	-	.1	51	+.1	b) 1	+ 0	51	+.1	c) 1	+.1
2	-	.1	52	+.0	2	+.1	52	+.7	2	- 2.9
3	-	.1	53	+.1	3	+.0	53	+.1	3	- 4.8
4	-	.1	54	+.2.5	4	+.0	54	+.1.5	4	- 4.2
5	-	.1	55	+.2.2	5	+.0	55	+.1.8	5	- 2.3
6	-	.1	56	+.1.0	6	+.0	56	+.1.2	6	+.6
7	-	.1	57	+.5	7	+.0	57	+.2	7	+.2
8	-	.1	58	+.1.0	8	+.0	58	+.7	8	+.4.2
9	-	.1	59	+.2	9	+.0	59	+.8	9	+.7.7
10	+	2.5	60	+.4	10	+.0	60	+.8	10	+.9.4
11	-	.1	61	+.8	11	+.9	61	+.8	11	+.1
12	-	.1	62	+.1.0	12	+.0	62	+.1.2	12	+.1
13	-	.1	63	+.1.1	13	+.1	63	+.1.8	13	+.1
14	-	.1	64	+.1.2	14	+.1.6	64	+.4	14	+.1
15	-	.1	65	+.1.2	15	+.0	65	+.7	15	+.1.1
16	-	.1	66	+.1.0	16	+.0	66	+.2.0	16	+.6
17	-	.1	67	+.1.0	17	+.1	67	+.3.3	17	+.2.8
18	-	.1	68	+.1.1	18	+.1	68	+.3.1	18	+.7.6
19	-	.1	69	+.1.2	19	+.1	69	+.7	19	+.9.1
20	-	.1	70	+.1	20	+.1	70	+.1	20	+.2
21	-	.1	71	+.1	21	+.1	71	+.1	21	-.5
22	-	.1	72	+.1	22	+.1	72	+.1	22	- 1.1
23	-	.1	73	+.5	23	+.2	73	+.3	23	- 1.1
24	-	.1	74	+.1	24	+.5	74	+.1	24	-.9
25	-	.1	75	+.1	25	+.2	75	+.1	25	-.8
26	-	.1	76	+.1	26	+.0	76	+.1	26	-.5
27	-	.1	77	+.9	27	+.0	77	+.7	27	-.4
28	-	.1	78	+.1	28	+.0	78	+.3.2	28	-.1
29	-	.1	79	+.4	29	+.0	79	+.4.3	29	+.3.5
30	-	.1	80	+.1.1	30	+.0	80	+.1.2	30	+.1
31	-	.1	81	+.1.4	31	+.0	81	+.6		
32	-	.1	82	+.1.5	32	+.0	82	+.7	Seq.	5
33	-	.1	83	+.2.7	33	+.0	83	+.8		
34	-	.1	84	+.2	34	+.0	84	+.9		
35	-	.1	85	+.2	35	+.0	85	+.1.0		
36	-	.1	86	+.3	36	+.0	86	+.1.1		
37	-	.1	87	+.8	37	+.0	87	+.3		
38	-	.1	88	+.1	38	+.0	88	+.7		
39	-	.1	89	+.1.9	39	+.0	89	+.3		
40	-	.1	90	+.1.1	40	+.0	90	+.5		
41	-	.1	91	+.1	41	+.0	91	+.7		
42	-	.1	92	+.1	42	+.0	92	+.8		
43	-	.1	93	+.5	43	+.0	93	+.1		
44	-	.1	94	+.1	44	+.0	94	+.2		
45	-	.1	95	+.1	45	+.0	95	+.2		
46	-	.1	96	+.3	46	+.0	96	+.2		
47	-	.1	97	+.1	47	+.0	97	+.4		
48	-	.1	98	+.2	48	+.0	98	+.2		
49	-	.1	99	+.1	49	+.0	99	+.6		
50	-	.1	100	+.1	50	+.0	100	+.1		

1849	.05	0°	.15	0	10.0	$+2.5^{\circ}$	1.010	2027.6	.002251
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a) 1 + 0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + .7	2 - .1	52 + .5	2 - 1.5
3 + 0	53 + .1	3 - .1	53 + .1	3 - 4.1
4 + 0	54 + 2.8	4 - .1	54 + 1.4	4 - 3.2
5 + 0	55 + 2.8	5 - .1	55 + 1.7	5 - 2.0
6 + 0	56 + 1.7	6 - .1	56 + 1.0	6 + .7
7 + 0	57 + 1.2	7 - .1	57 + .1	7 + .2
8 + 0	58 + 1.5	8 - .1	58 + .6	8 + 4.1
9 + 0	59 + 1.5	9 - .1	59 + .8	9 + 8.1
10 + .9	60 + 1.5	10 - .1	60 + .8	10 + 9.5
11 + 0	61 + 1.5	11 - 1.4	61 + .4	11 + .1
12 + 0	62 + 1.8	12 - .1	62 + 1.1	12 - 1.5
13 + 0	63 + 2.0	13 - .1	63 + 1.5	13 - 1.6
14 + 0	64 + 2.0	14 + 1.2	64 + .2	14 - 1.3
15 + 0	65 + 1.7	15 - .1	65 + .6	15 + 1.2
16 + 0	66 + 1.6	16 - .1	66 + 1.4	16 + .6
17 + 0	67 + 1.6	17 - .1	67 + 1.7	17 + 2.3
18 + 0	68 + 1.6	18 - .1	68 + 1.9	18 + 6.9
19 + 0	69 + 1.6	19 - .1	69 + 1.1	19 + 9.5
20 + 0.	70 + .1	20 - .1	70 + .1	20 + .2
21 + 0	71 + .3	21 - .1	71 + .1	21 - 1.5
22 + 0	72 + .4	22 - .1	72 + .2	22 - 1.6
23 + 0	73 + .7	23 - .1	73 + .2	23 - 1.5
24 + 0	74 + .6	24 - .2	74 + .1	24 - 1.4
25 + 0	75 + .4	25 - .1	75 + .1	25 - .7
26 + 0	76 + .5	26 - 0	76 + .2	26 - .8
27 + 0	77 + .9	27 - .1	77 + 2.0	27 - .7
28 + 0	78 + 1.2	28 - .1	78 + 2.7	28 + 1.7
29 + 0	79 + 1.3	29 - .1	79 + 2.9	29 + 5.3
30 + 0	80 + 1.5	30 - .1	80 + 1.7	30 + .1
31 + 0	81 + 1.0	31 - .1	81 + 1.2	
32 + 0	82 + 1.8	32 - .1	82 + 1.2	
33 + 0	83 + 2.7	33 + 0	83 + 1.2	
34 + 0	84 + .1	34 + 0	84 + 1.2	
35 + 0	85 + .4	35 + 0	85 + 1.2	
36 + 0	86 + .6	36 + 0	86 + 1.2	
37 + 0	87 + 1.0	37 + 0	87 + 1.2	
38 + 0	88 + .1	38 + 0	88 + 1.2	
39 + 0	89 + 2.8	39 + 0	89 + .8	
40 + 0	90 + .3	40 + 0	90 + .8	
41 + 0	91 + .5	41 - .1	91 + .8	
42 + 0	92 + .1	42 - .1	92 + .8	
43 + 0	93 + .8	43 - .1	93 + .4	
44 + 0	94 + .3	44 - .1	94 + .4	
45 + 0	95 + .4	45 - .1	95 + .1	
46 + 0	96 + .4	46 - .1	96 + .1	
47 + 0	97 + .4	47 - .1	97 + .1	
48 + 0	98 + .1	48 - .1	98 + .1	
49 + 0	99 + .1	49 - .1	99 + .3	
50 + 0	100 + .1	50 - .1	100 + .1	

Seq. 5

1850	.05	0°	.15	0	10.0	0°	1.010	2027.6	.002251
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a) 1 + 0	51	+	.1	b) 1 + 0	51	+	.1	c) 1 + .1
2 + 0	52	+	.7	2 + .1	52	+	.9	2 - .6
3 + 0	53	+	.1	3 + .1	53	+	.3	3 - 2.3
4 + 0	54	+	2.5	4 + .1	54	+	2.3	4 - 2.1
5 + 0	55	+	2.8	5 + .1	55	+	3.2	5 - 1.0
6 + 0	56	+	1.0	6 + .1	56	+	1.3	6 + 1.3
7 + 0	57	+	.9	7 + .1	57	+	1.6	7 + .3
8 + 0	58	+	1.1	8 + .1	58	+	2.0	8 + 2.3
9 + 0	59	+	1.3	9 + .1	59	+	1.8	9 + 7.8
10 + 0	60	+	1.3	10 + .1	60	+	1.8	10 + 9.1
11 + 0	61	+	1.3	11 + 1.5	61	+	1.8	11 + .2
12 + 0	62	+	1.7	12 + 0	62	+	2.3	12 - 1.2
13 + 0	63	+	3.1	13 + 0	63	+	2.5	13 - 1.6
14 + 0	64	+	2.0	14 + 1.5	64	+	1.3	14 - 1.1
15 + 0	65	+	1.9	15 + .1	65	+	1.7	15 + 1.4
16 + 0	66	+	1.9	16 + 0	66	+	2.8	16 + .6
17 + 0	67	+	1.9	17 + .1	67	+	2.9	17 + 1.9
18 + 0	68	+	1.9	18 + .1	68	+	2.9	18 + 7.6
19 + 0	69	+	2.0	19 + .1	69	+	2.1	19 + 9.8
20 + 0	70	+	.1	20 + .2	70	+	.5	20 + .1
21 + 0	71	+	.7	21 + .2	71	+	.9	21 - 1.8
22 + 0	72	+	.9	22 + .2	72	+	1.0	22 - 3.6
23 + 0	73	+	1.0	23 + .2	73	+	1.1	23 - 3.1
24 + 0	74	+	1.0	24 + 1.4	74	+	.5	24 - 1.8
25 + 0	75	+	.9	25 + .1	75	+	.8	25 + .6
26 + 0	76	+	.9	26 + .1	76	+	1.1	26 - 1.2
27 + 0	77	+	1.0	27 + .1	77	+	2.0	27 + 1.2
28 + 0	78	+	1.2	28 + .1	78	+	2.1	28 + 3.9
29 + 0	79	+	1.5	29 + 0	79	+	2.0	29 + 6.4
30 + 0	80	+	1.7	30 + .1	80	+	2.0	30 + .2
31 + 0	81	+	1.7	31 + 0	81	+	2.1	
32 + 0	82	+	1.7	32 + 0	82	+	2.1	Seq. 5
33 + 0	83	+	1.9	33 + .1	83	+	2.1	
34 + 0	84	+	.1	34 + .1	84	+	2.1	
35 + 0	85	+	.7	35 + 0	85	+	2.1	
36 + 0	86	+	1.0	36 + 0	86	+	1.4	
37 + 0	87	+	1.3	37 + 0	87	+	2.1	
38 + 0	88	+	1.4	38 + .1	88	+	2.0	
39 + 0	89	+	1.5	39 + 0	89	+	1.9	
40 + 0	90	+	.5	40 + 0	90	+	1.8	
41 + 0	91	+	.6	41 + 0	91	+	1.8	
42 + 0	92	+	.1	42 + 0	92	+	2.1	
43 + 0	93	+	.7	43 + 0	93	+	1.4	
44 + 0	94	+	.7	44 + 0	94	+	1.2	
45 + 0	95	+	.7	45 + 0	95	+	1.2	
46 + 0	96	+	.7	46 + 0	96	+	.4	
47 + 0	97	+	.7	47 + 0	97	+	.8	
48 + 0	98	+	.1	48 + 0	98	+	1.0	
49 + 0	99	+	.1	49 + 0	99	+	1.2	
50 + 0	100	+	.1	50 + 0	100	+	.1	

	1830	.05	0°	.25	0	10.0	-2.5°	1.049	2019.8	.002111
a) 1 + 0	51	+ .2	b) 1 + .1	51	+ .1	c) 1 + .2				
2 + 0	52	+ 1.1	2 + 0	52	+ 1.4	2 + 1.7				
3 + 0	53	+ .1	3 + 0	53	+ .3	3 + 5.2				
4 + 0	54	+ 3.2	4 + 0	54	+ 2.8	4 + 5.8				
5 + 0	55	+ 1.0	5 + 0	55	+ 4.7	5 + 3.5				
6 + 0	56	+ 4.2	6 + 0	56	+ 3.4	6 + 1.0				
7 + 0	57	+ 5.9	7 + 0	57	+ 8.9	7 + 2.9				
8 + 0	58	+ 2.5	8 + 0	58	+ 13.5	8 + .2				
9 + 0	59	+ .1	9 + 0	59	+ 11.8	9 + 15.3				
10 + 5.4	60	+ 3.1	10 + .2	60	+ 7.9	10 + 30.7				
11 + 0	61	+ 6.4	11 + 2.8	61	+ 3.9	11 + 10.4				
12 + .1	62	+ 3.0	12 + 0	62	+ 4.4	12 + 15.5				
13 + .1	63	+ 1.4	13 + .3	63	+ 4.7	13 + 17.0				
14 + .2	64	+ 4.1	14 + 4.6	64	+ 5.1	14 + 11.2				
15 + .2	65	+ 6.9	15 + .1	65	+ 7.8	15 + 2.7				
16 + .2	66	+ 3.3	16 + .2	66	+ 11.9	16 + 6.2				
17 + .2	67	+ 1.0	17 + .2	67	+ 12.1	17 + 11.0				
18 + .2	68	+ 4.3	18 + .3	68	+ 9.1	18 + 31.3				
19 + .2	69	+ 6.2	19 + .2	69	+ 5.3	19 + 42.3				
20 + .2	70	+ 2.8	20 + .2	70	+ 1.4	20 + .1				
21 + .2	71	+ .8	21 + 0	71	+ 1.6	21 + 13.1				
22 + .2	72	+ 3.1	22 + 0	72	+ 1.6	22 + 20.5				
23 + .2	73	+ 5.8	23 + .4	73	+ 2.6	23 + 19.3				
24 + .2	74	+ 5.0	24 + 6.4	74	+ 1.6	24 + 11.3				
25 + .2	75	+ 2.1	25 + 0	75	+ 1.3	25 + 3.9				
26 + .2	76	+ 3.8	26 + .1	76	+ 1.4	26 + 4.1				
27 + .2	77	+ 6.3	27 + .1	77	+ 1.8	27 + 13.2				
28 + .2	78	+ 7.3	28 + .2	78	+ 1.9	28 + 21.7				
29 + .2	79	+ 4.9	29 + .6	79	+ 2.5	29 + 32.7				
30 + .2	80	+ 5.4	30 + 1.7	80	+ 2.5	30 + .1				
31 + .2	81	+ 6.7	31 + 0	81	+ 2.9					
32 + .2	82	+ 7.7	32 + .2	82	+ 3.7	Seq. 5				
33 + .2	83	+ 7.3	33 + .3	83	+ 3.9					
34 + .2	84	+ .5	34 + .3	84	+ 4.5					
35 + .2	85	+ 2.7	35 + 1.3	85	+ 5.8					
36 + .2	86	+ 4.8	36 + .4	86	+ 6.0					
37 + .2	87	+ 6.5	37 + 1.3	87	+ 16.2					
38 + .2	88	+ 7.1	38 + 1.9	88	+ 2.7					
39 + .2	89	+ 2.6	39 + 2.0	89	+ 5.1					
40 + .2	90	+ .2	40 + 0	90	+ 3.7					
41 + .2	91	+ 2.4	41 + 0	91	+ 5.9					
42 + .2	92	+ .1	42 + 0	92	+ 14.1					
43 + .2	93	+ 6.0	43 + 0	93	+ 6.1					
44 + .2	94	+ 4.2	44 + 0	94	+ 1.0					
45 + .2	95	+ 4.9	45 + 0	95	+ 3.4					
46 + .2	96	+ 5.8	46 + 0	96	+ 5.4					
47 + .2	97	+ 3.0	47 + 0	97	+ 4.4					
48 + .2	98	+ .1	48 + 0	98	+ 5.5					
49 + .2	99	+ .1	49 + 0	99	+ 6.2					
50 + .2	100	+ .1	50 + 0	100	+ .1					

1831	.05	0°	.25	0	10.0	0°	1.049	2019.8	.002111
a) 1 - .1		51 + .2		b) 1 + 0		51 + .1		c) 1 + .1	
2 - .1		52 + 1.5		2 + 0		52 + 1.2		2 - 8.7	
3 - .1		53 + .7		3 + 0		53 + .4		3 - 15.3	
4 - .1		54 + 5.9		4 + 0		54 + 6.8		4 - 14.8	
5 - .1		55 + 5.1		5 + 0		55 + 8.6		5 - 8.5	
6 - .1		56 + 5.1		6 + 0		56 + 5.0		6 + 4.1	
7 - .1		57 + 5.0		7 + 0		57 + 7.2		7 - 5.0	
8 - .1		58 + 5.1		8 + 0		58 + 7.2		8 + 9.1	
9 - .1		59 + 3.3		9 + .3		59 + 5.3		9 + 30.5	
10 + 1.8		60 + 4.3		10 + .5		60 + 3.5		10 + 42.0	
11 - .1		61 + 5.9		11 + 7.3		61 + 3.7		11 - 7.2	
12 - .1		62 + 5.5		12 + 0		62 + 4.5		12 - 13.0	
13 - .1		63 + 4.8		13 + .5		63 + 5.2		13 - 15.3	
14 - .1		64 + 5.0		14 + 7.5		64 + 5.8		14 - 10.3	
15 - .1		65 + 5.7		15 + .1		65 + 7.7		15 + 3.5	
16 - .1		66 + 4.5		16 + 0		66 + 9.2		16 - 8.6	
17 - .1		67 + 3.3		17 + .1		67 + 8.8		17 + 5.8	
18 - .1		68 + 4.8		18 + .2		68 + 6.5		18 + 30.9	
19 - .1		69 + 5.6		19 + .2		69 + 4.4		19 + 46.9	
20 - .1		70 + 2.9		20 + .1		70 + 2.3		20 + .2	
21 - .1		71 + 3.0		21 + .1		71 + 2.6		21 - 9.6	
22 - .1		72 + 3.9		22 + 0		72 + 2.8		22 - 16.4	
23 - .1		73 + 4.7		23 + .5		73 + 3.3		23 - 15.5	
24 - .1		74 + 4.0		24 + 7.1		74 + 4.4		24 + 9.8	
25 - .1		75 + 2.5		25 + .2		75 + 7.1		25 + 3.6	
26 - .1		76 + 3.8		26 + .3		76 + 8.3		26 - 7.8	
27 - .1		77 + 5.6		27 + .3		77 + 8.5		27 + 5.2	
28 - .1		78 + 5.3		28 + .1		78 + 5.7		28 + 18.5	
29 - .1		79 + 4.1		29 + .1		79 + 5.4		29 + 35.0	
30 - .1		80 + 5.0		30 + .3		80 + 3.6		30 + .1	
31 - .1		81 + 5.8		31 + 0		81 + 3.9			
32 - .1		82 + 6.2		32 + .1		82 + 4.2		S.q. 5	
33 - .1		83 + 8.2		33 + .1		83 + 4.4			
34 - .1		84 + 1.2		34 + .1		84 + 4.7			
35 - .2		85 + 3.6		35 + 1.1		85 + 5.1			
36 - .1		86 + 4.6		36 + 0		86 + 5.3			
37 - .1		87 + 5.5		37 + .1		87 + 8.7			
38 - .1		88 + 6.9		38 + .5		88 + 4.0			
39 - .1		89 + 7.9		39 + .7		89 + 2.9			
40 - 1		90 + 2.8		40 + 0		90 + 4.1			
41 - .1		91 + 3.0		41 + 0		91 + 4.6			
42 - .1		92 + .1		42 + 0		92 + 8.2			
43 - .1		93 + 6.1		43 + 0		93 + 5.7			
44 - .1		94 + 4.0		44 + 0		94 + 2.6			
45 - .1		95 + 4.0		45 + 0		95 + 3.6			
46 - .1		96 + 4.6		46 + 0		96 + 4.3			
47 - .1		97 + 2.6		47 + 0		97 + 4.5			
48 - .1		98 + .1		48 + 0		98 + 4.6			
49 - .1		99 + .1		49 + 0		99 + 4.9			
50 - .1		100 + .1		50 + 0		100 + .1			

1832 .05	0° .25	0 10.0	+2.5° 1.049	2019.8 .002111
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a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.0	2 + 0	52 + 1.0	2 - 14.6
3 + 0	53 + .1	3 + 0	53 + .1	3 - 24.3
4 + 0	54 + 9.0	4 + 0	54 + 4.2	4 - 21.4
5 + 0	55 + 5.7	5 + .1	55 + 3.4	5 - 12.3
6 + 0	56 + 5.7	6 + .3	56 + 1.0	6 + 4.2
7 + 0	57 + 5.8	7 + .5	57 + .2	7 - 2.8
8 + 0	58 + 6.0	8 + .8	58 + 1.2	8 + 19.1
9 + 0	59 + 2.4	9 + 1.1	59 + 1.3	9 + 36.0
10 + 1.3	60 + 3.8	10 + 2.3	60 + .3	10 + 43.7
11 + 0	61 + 5.9	11 + 7.0	61 + 1.6	11 - 9.6
12 + 0	62 + 4.9	12 + 0	62 + 3.0	12 - 14.5
13 + 0	63 + 2.2	13 + .6	63 + 3.9	13 - 16.7
14 + 0	64 + 4.3	14 + 8.1	64 + 4.0	14 - 11.9
15 + 0	65 + 6.5	15 + .1	65 + 5.8	15 + 2.4
16 + .1	66 + 3.1	16 + .2	66 + 9.0	16 - 8.1
17 + .1	67 + 1.1	17 + .2	67 + 9.6	17 + 3.6
18 + .1	68 + 4.6	18 + .2	68 + 9.1	18 + 27.8
19 + .1	69 + 6.0	19 + .2	69 + 5.7	19 + 43.2
20 + .1	70 + 1.8	20 + .2	70 + 1.8	20 + .1
21 + .1	71 + .3	21 + 0	71 + 1.4	21 - 3.6
22 + 0	72 + 2.7	22 + .1	72 + 1.0	22 - 7.0
23 + 0	73 + 5.9	23 + .1	73 + 2.5	23 - 8.1
24 + 0	74 + 1.9	24 + 4.2	74 + .3	24 - 3.5
25 + 0	75 + .1	25 + 0	75 + 1.3	25 + .2
26 + 0	76 + 2.9	26 + 0	76 + 5.5	26 - 5.4
27 + 0	77 + 5.5	27 + 0	77 + 12.1	27 - 2.2
28 + 0	78 + 2.0	28 + 0	78 + 13.3	28 + 7.4
29 + 0	79 + .3	29 + 0	79 + 11.4	29 + 25.8
30 + .1	80 + 4.3	30 + 0	80 + .5	30 + .1
31 + .1	81 + ..6	31 + 0	81 + 3.2	
32 + .1	82 + 7.7	32 + 0	82 + 3.4	
33 + .1	83 + 13.8	33 + 0	83 + 3.5	
34 + .1	84 + 1.0	34 + 0	84 + 4.6	
35 + 0	85 + 1.5	35 + 2.0	85 + .1	
36 + 0	86 + 3.5	36 + 0	86 + 0.7	
37 + 0	87 + 5.9	37 + 0	87 + 2.5	
38 + .1	88 + 2.4	38 + 0	88 + 2.7	
39 + .1	89 + 14.3	39 + 0	89 + .2	
40 + .1	90 + 4.8	40 + 0	90 + 4.1	
41 + .1	91 + 1.4	41 + 0	91 + 5.8	
42 + .1	92 + .2	42 + 0	92 + 7.4	
43 + .1	93 + 5.5	43 + 0	93 + .9	
44 + .1	94 + 3.2	44 + 0	94 + 1.3	
45 + 0	95 + 4.0	45 + 0	95 + 3.7	
46 + 0	96 + 5.3	46 + 0	96 + 5.2	
47 + 0	97 + 3.6	47 + 0	97 + 4.4	
48 + 0	98 + .1	48 + 0	98 + 4.8	
49 + 0	99 + .1	49 + 0	99 + 5.9	
50 + 0	100 + .1	50 + 0	100 + .1	

Seq. 5

1848	.05	0°	.15	0	10.0	$+5.0^{\circ}$	1.010	2027.6	.002250
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a) 1 - .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 - .1	52 + .0	2 - .1	52 + .7	2 - 2.9
3 - .1	53 + .1	3 + 0	53 + .1	3 - 4.8
4 - .1	54 + 2.5	4 + 0	54 + 1.5	4 - 4.2
5 - .1	55 + 2.2	5 + 0	55 + 1.8	5 - 2.3
6 - .1	56 + 1.0	6 + 0	56 + 1.2	6 + .6
7 - .1	57 + .5	7 + 0	57 + .2	7 + .2
8 - .1	58 + 1.0	8 + 0	58 + .7	8 + 4.2
9 - .1	59 + .2	9 + 0	59 + .8	9 + 7.7
10 + 2.5	60 + .4	10 + 0	60 + .8	10 + 9.4
11 - .1	61 + .8	11 + .9	61 + .8	11 + .1
12 - .1	62 + 1.0	12 + 0	62 + 1.2	12 + .1
13 - .1	63 + 1.1	13 + .1	63 + 1.8	13 + .1
14 - .1	64 + 1.2	14 + 1.6	64 + .4	14 + .1
15 - .1	65 + 1.2	15 + 0	65 + .7	15 + 1.1
16 - .1	66 + 1.0	16 + 0	66 + 2.0	16 + .6
17 - .1	67 + 1.0	17 + .1	67 + 3.3	17 + 2.8
18 - .1	68 + 1.1	18 + 1	68 + 3.1	18 + 7.6
19 - .1	69 + 1.2	19 + 1	69 + .7	19 + 9.1
20 - .1	70 + .1	20 + .1	70 + .1	20 + .2
21 - .1	71 + .1	21 + .1	71 + 1	21 - .5
22 - .1	72 + .1	22 + .1	72 + .1	22 - 1.1
23 - .1	73 + .5	23 + .2	73 + .3	23 - 1.1
24 - .1	74 + 1	24 + .5	74 + .1	24 - .9
25 - .1	75 + .1	25 + .2	75 + .1	25 - .8
26 - .1	76 + .1	26 + 0	76 + .1	26 - .5
27 - .1	77 + .9	27 + 0	77 + .7	27 - .4
28 - .1	78 + .1	28 + 0	78 + 3.2	28 - .1
29 - .1	79 + .4	29 + 0	79 + 4.3	29 + 3.5
30 - .1	80 + 1.1	30 + 0	80 + 1.2	30 + .1
31 - .1	81 + 1.4	31 + 0	81 + .6	
32 - .1	82 + 1.5	32 + 0	82 + .7	Seq. 5
33 - .1	83 + 2.7	33 + 0	83 + .8	
34 - .1	84 + .2	34 + 0	84 + .9	
35 - .1	85 + .2	35 + 0	85 + 1.0	
36 - .1	86 + .3	36 + 0	86 + 1.1	
37 - .1	87 + .8	37 + 0	87 + .3	
38 - .1	88 + 1	38 + 0	88 + .7	
39 - .1	89 + 1.9	39 + 0	89 + .3	
40 - .1	90 + 1.1	40 + 0	90 + .5	
41 - .1	91 + .1	41 + 0	91 + .7	
42 - .1	92 + 1	42 + 0	92 + .8	
43 - .1	93 + .5	43 + 0	93 + .1	
44 - .1	94 + .1	44 + 0	94 + .2	
45 - .1	95 + .1	45 + 0	95 + .2	
46 - .1	96 + .3	46 + 0	96 + .2	
47 - .1	97 + 1	47 + 0	97 + .4	
48 - .1	98 + .2	48 + 0	98 + .2	
49 - .1	99 + .1	49 + 0	99 + .6	
50 - .1	100 + .1	50 + 0	100 + 1	

1849 .05 0° .15 0 10.0 +2.5° 1.010 2027.6 .002251

a) 1 + 0	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + .7	2 - .1	52 + .5	2 - 1.5
3 + 0	53 + .1	3 - .1	53 + .1	3 - 4.1
4 + 0	54 + 2.8	4 - .1	54 + 1.4	4 - 3.2
5 + 0	55 + 2.8	5 - .1	55 + 1.7	5 - 2.0
6 + 0	56 + 1.7	6 - .1	56 + 1.0	6 + .7
7 + 0	57 + 1.2	7 - .1	57 + .1	7 + .2
8 + 0	58 + 1.5	8 - .1	58 + .6	8 + 4.1
9 + 0	59 + 1.5	9 - .1	59 + .8	9 + 8.1
10 + .9	60 + 1.5	10 - .1	60 + .8	10 + 9.5
11 + 0	61 + 1.5	11 - 1.4	61 + .4	11 + .1
12 + 0	62 + 1.8	12 - .1	62 + 1.1	12 - 1.5
13 + 0	63 + 2.0	13 - .1	63 + 1.5	13 - 1.6
14 + 0	64 + 2.0	14 + 1.2	64 + .2	14 - 1.3
15 + 0	65 + 1.7	15 - .1	65 + .6	15 + 1.2
16 + 0	66 + 1.6	16 - .1	66 + 1.4	16 + .6
17 + 0	67 + 1.6	17 - .1	67 + 1.7	17 + 2.3
18 + 0	68 + 1.6	18 - .1	68 + 1.9	18 + 6.9
19 + 0	69 + 1.6	19 - .1	69 + 1.1	19 + 9.5
20 + 0.	70 + .1	20 - .1	70 + .1	20 + .2
21 + 0	71 + .3	21 - .1	71 + .1	21 - 1.5
22 + 0	72 + .4	22 - .1	72 + .2	22 - 1.6
23 + 0	73 + .7	23 - .1	73 + .2	23 - 1.5
24 + 0	74 + .6	24 + .2	74 + .1	24 - 1.4
25 + 0	75 + .4	25 - .1	75 + .1	25 - .7
26 + 0	76 + .5	26 + 0	76 + .2	26 - .8
27 + 0	77 + .9	27 - .1	77 + 2.0	27 - .7
28 + 0	78 + 1.2	28 - 1	78 + 2.7	28 - 1.7
29 + 0	79 + 1.3	29 - .1	79 + 2.9	29 + 5.3
30 + 0	80 + 1.5	30 - .1	80 + 1.7	30 + .1
31 + 0	81 + 1.0	31 - .1	81 + 1.2	
32 + 0	82 + 1.8	32 - .1	82 + 1.2	Seq. 5
33 + 0	83 + 2.7	33 + 0	83 + 1.2	
34 + 0	84 + .1	34 + 0	84 + 1.2	
35 + 0	85 + .4	35 + 0	85 + 1.2	
36 + 0	86 + .6	36 + 0	86 + 1.2	
37 + 0	87 + 1.0	37 + 0	87 + 1.2	
38 + 0	88 + .1	38 + 0	88 + 1.2	
39 + 0	89 + 2.8	39 + 0	89 + .8	
40 + 0	90 + .3	40 + 0	90 + .8	
41 + 0	91 + .5	41 - .1	91 + .8	
42 + 0	92 + .1	42 - .1	92 + .8	
43 + 0	93 + .8	43 - .1	93 + .4	
44 + 0	94 + .3	44 - .1	94 + .4	
45 + 0	95 + .4	45 - .1	95 + .1	
46 + 0	96 + .4	46 - .1	96 + .1	
47 + 0	97 + .4	47 - .1	97 + .1	
48 + 0	98 + .1	48 - .1	98 + .1	
49 + 0	99 + .1	49 - .1	99 + .3	
50 + 0	100 + .1	50 - .1	100 + .1	

1850	.05	0°	.15	0	10.0	0°	1.010	2027.6	.002251
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a) 1 + 0	51	+ .1	b) 1 + 0	51	+ .1	c) 1 + .1			
2 + 0	52	+ .7	2 + .1	52	+ .9	2 - .6			
3 + 0	53	+ .1	3 + .1	53	+ .3	3 - 2.3			
4 + 0	54	+ 2.5	4 + .1	54	+ 2.3	4 - 2.1			
5 + 0	55	+ 2.8	5 + .1	55	+ 3.2	5 - 1.0			
6 + 0	56	+ 1.0	6 + .1	56	+ 1.3	6 + 1.3			
7 + 0	57	+ .9	7 + .1	57	+ 1.6	7 + .3			
8 + 0	58	+ 1.1	8 + .1	58	+ 2.0	8 + 2.3			
9 + 0	59	+ 1.3	9 + .1	59	+ 1.8	9 + 7.8			
10 + 0	60	+ 1.3	10 + .1	60	+ 1.8	10 + 9.1			
11 + 0	61	+ 1.3	11 + 1.5	61	+ 1.8	11 + .2			
12 + 0	62	+ 1.7	12 + 0	62	+ 2.3	12 - 1.2			
13 + 0	63	+ 3.1	13 + 0	63	+ 2.5	13 - 1.6			
14 + 0	64	+ 2.0	14 + 1.5	64	+ 1.3	14 - 1.1			
15 + 0	65	+ 1.9	15 + .1	65	+ 1.7	15 + 1.4			
16 + 0	66	+ 1.9	16 + 0	66	+ 2.8	16 + .6			
17 + 0	67	+ 1.9	17 + .1	67	+ 2.9	17 + 1.9			
18 + 0	68	+ 1.9	18 + .1	68	+ 2.9	18 + 7.6			
19 + 0	69	+ 2.0	19 + .1	69	+ 2.1	19 + 9.8			
20 + 0	70	+ .1	20 + .2	70	+ .5	20 + .1			
21 + 0	71	+ .7	21 + .2	71	+ .9	21 - 1.8			
22 + 0	72	+ .9	22 + .2	72	+ 1.0	22 - 3.6			
23 + 0	73	+ 1.0	23 + .2	73	+ 1.1	23 - 3.1			
24 + 0	74	+ 1.0	24 + 1.4	74	+ .5	24 - 1.8			
25 + 0	75	+ .9	25 + .1	75	+ .8	25 + .6			
26 + 0	76	+ .9	26 + .1	76	+ 1.1	26 - 1.2			
27 + 0	77	+ 1.0	27 + .1	77	+ 2.0	27 + 1.2			
28 + 0	78	+ 1.2	28 + .1	78	+ 2.1	28 + 3.9			
29 + 0	79	+ 1.5	29 + 0	79	+ 2.0	29 + 6.4			
30 + 0	80	+ 1.7	30 + .1	80	+ 2.0	30 + .2			
31 + 0	81	+ 1.7	31 + 0	81	+ 2.1				
32 + 0	82	+ 1.7	32 + 0	82	+ 2.1	Seq. 5			
33 + 0	83	+ 1.9	33 + .1	83	+ 2.1				
34 + 0	84	+ .1	34 + .1	84	+ 2.1				
35 + 0	85	+ 7	35 + 0	85	+ 2.1				
36 + 0	86	+ 1.0	36 + 0	86	+ 1.4				
37 + 0	87	+ 1.3	37 + 0	87	+ 2.1				
38 + 0	88	+ 1.4	38 + .1	88	+ 2.0				
39 + 0	89	+ 1.5	39 + 0	89	+ 1.9				
40 + 0	90	+ .5	40 + 0	90	+ 1.8				
41 + 0	91	+ .6	41 + 0	91	+ 1.8				
42 + 0	92	+ 1	42 + 0	92	+ 2.1				
43 + 0	93	+ .7	43 + 0	93	+ 1.4				
44 + 0	94	+ .7	44 + 0	94	+ 1.2				
45 + 0	95	+ .7	45 + 0	95	+ 1.2				
46 + 0	96	+ .7	46 + 0	96	+ .4				
47 + 0	97	+ .7	47 + 0	97	+ .8				
48 + 0	98	+ .1	48 + 0	98	+ 1.0				
49 + 0	99	+ .1	49 + 0	99	+ 1.2				
50 + 0	100	+ .1	50 + 0	100	+ .1				

	1851	.05	00	.15	0	10.0	-2.50	1.010	2027.0	.002251
a) 1	-	.1	51	.2	b) 1	+	0	51	+	.1
2	-	.1	52	.7	2	+	0	52	+	1.1
3	-	.1	53	.1	3	+	0	53	+	.1
4	-	.1	54	1.0	4	+	0	54	+	1.9
5	-	.1	55	2.2	5	+	0	55	+	2.1
6	-	.1	56	2.4	6	+	0	56	+	.9
7	-	.1	57	1.9	7	+	0	57	+	2.2
8	-	.1	58	1.8	8	+	0	58	+	4.7
9	-	.1	59	1.0	9	+	0	59	+	2.6
10	-	.1	60	1.0	10	+	0	60	+	1.4
11	-	.1	61	1.6	11	+	0	61	+	.8
12	-	.1	62	1.6	12	+	0	62	+	2.0
13	-	.1	63	1.7	13	+	0	63	+	2.5
14	-	.1	64	1.8	14	+	0	64	+	1.1
15	-	.1	65	1.8	15	+	0	65	+	1.8
16	-	.1	66	1.8	16	+	0	66	+	3.3
17	-	.1	67	1.8	17	+	0	67	+	3.5
18	-	.1	68	1.8	18	+	0	68	+	2.7
19	-	.1	69	1.8	19	+	0	69	+	1.3
20	-	.1	70	1.4	20	+	0	70	+	.0
21	-	.1	71	1.4	21	+	0	71	+	.9
22	-	.1	72	1.3	22	+	0	72	+	1.0
23	-	.1	73	1.3	23	+	.9	73	+	1.0
24	-	.1	74	.9	24	+	0	74	+	.8
25	-	.1	75	.7	25	+	0	75	+	.6
26	-	1	76	.7	26	+	0	76	+	.8
27	-	1	77	.9	27	+	0	77	+	1.2
28	-	1	78	1.4	28	+	0	78	+	1.5
29	-	1	79	1.6	29	+	0	79	+	2.0
30	-	1	80	1.7	30	+	0	80	+	1.7
31	-	1	81	1.7	31	+	0	81	+	1.8
32	-	1	82	1.8	32	+	0	82	+	1.8
33	-	1	83	1.8	33	+	0	83	+	1.0
34	-	1	84	.1	34	+	0	84	+	1.8
35	-	1	85	.7	35	+	0	85	+	1.9
36	-	1	86	.9	36	+	0	86	+	1.9
37	-	1	87	1.1	37	+	0	87	+	4.5
38	-	1	88	1.3	38	+	0	88	+	1.5
39	-	1	89	1.3	39	+	0	89	+	.8
40	-	1	90	1.1	40	+	0	90	+	1.3
41	-	1	91	1.0	41	+	0	91	+	1.4
42	-	1	92	.1	42	+	0	92	+	3.9
43	-	1	93	.5	43	+	0	93	+	1.0
44	-	1	94	.0	44	+	0	94	+	.7
45	-	1	95	.0	45	+	0	95	+	.8
46	-	1	96	.6	46	+	0	96	+	1.1
47	-	1	97	.5	47	+	0	97	+	1.3
48	-	1	98	.1	48	+	0	98	+	1.1
49	-	1	99	.1	49	+	0	99	+	1.8
50	-	1	100	.1	50	+	.1	100	+	.1

Seq. 5

1952 .05 0° .15 0 10.0 -5.0° 1.010 2027.6 .002251

a) 1 - .1	51 + .1	b) 1 + .2	51 + .2	c) 1 + .1
2 - .1	52 + 1.3	2 + .2	52 + 1.3	2 + .1
3 - .1	53 + .1	3 + .2	53 + .3	3 + 1.8
4 - .1	54 + 2.2	4 + .2	54 + 1.9	4 + 1.7
5 - .1	55 + 1.9	5 + .2	55 + 1.9	5 + 1.6
6 - .1	56 + 1.8	6 + .2	56 + 5	6 + 1.4
7 - .1	57 + .9	7 + .2	57 + .2	7 + .2
8 - .1	58 + .8	8 + .2	58 + 3.9	8 + .4
9 - .1	59 + .1	9 + .2	59 + 5.3	9 + 1.9
10 - .1	60 + 1.0	10 + .2	60 + 2.9	10 + 3.9
11 - .1	61 + 1.5	11 + .2	61 + 5	11 + 2.1
12 - .1	62 + 1.5	12 + .2	62 + 1.4	12 + 4.1
13 - .1	63 + 1.3	13 + .2	63 + 1.9	13 + 3.9
14 - .1	64 + 1.6	14 + .2	64 + .8	14 + 3.1
15 + 0	65 + 1.6	15 + .2	65 + 1.2	15 + .2
16 - .1	66 + 1.2	16 + .2	66 + 3.1	16 + 2.2
17 - 1	67 + 1.0	17 + .2	67 + 3.2	17 + .9
18 - .1	68 + 1.4	18 + .2	68 + 2.9	18 + 5.7
19 - .1	69 + 1.6	19 + .2	69 + 1.3	19 + 8.5
20 - .1	70 + .2	20 + .2	70 + .1	20 + .1
21 - .1	71 + .3	21 + .2	71 + .4	21 + 5.4
22 - .1	72 + .3	22 + .2	72 + .3	22 + 7.6
23 - .1	73 + 1.0	23 + .2	73 + .6	23 + 6.9
24 - .1	74 + 1.2	24 + 1.1	74 + .6	24 + 5.0
25 - .1	75 + .5	25 + 0	75 + 5	25 + 1.2
26 - .1	76 + .3	26 + 0	76 + .2	26 + 4.0
27 - 1	77 + 1.3	27 + 0	77 + .5	27 + .1
28 - .1	78 + 2.0	28 + 0	78 + 1.0	28 + 3.4
29 - .1	79 + 2.1	29 + 0	79 + 1.6	29 + 6.0
30 - .1	80 + 2.1	30 + 0	80 + 1.7	30 + .1
31 - .1	81 + 2.1	31 + 0	81 + 1.7	
32 - .1	82 + 2.2	32 + 0	82 + 1.7	Seq. 5
33 - .1	83 + 1.4	33 + 0	83 + 1.5	
34 - .1	84 + .1	34 + 0	84 + 1.5	
35 - 1	85 + 1.2	35 + 0	85 + 1.9	
36 - .1	86 + 1.3	36 + 0	86 + 1.9	
37 - .1	87 + 1.7	37 + 0	87 + 4.2	
38 - .1	88 + 1.7	38 + .2	88 + .7	
39 - 1	89 + .3	39 + 0	89 + 1.5	
40 - .1	90 + .5	40 + 0	90 + .7	
41 - .1	91 + .7	41 + 0	91 + 1.3	
42 - .1	92 + .1	42 + 0	92 + 4.5	
43 - .1	93 + 1.3	43 + 0	93 + .9	
44 - 1	94 + .8	44 + 0	94 + .1	
45 - .1	95 + .8	45 + 0	95 + .3	
46 - .1	96 + .8	46 + 0	96 + .8	
47 - .1	97 + .5	47 + 0	97 + .6	
48 - .1	98 + .1	48 + 0	98 + .8	
49 - .1	99 + .1	49 + 0	99 + 1.3	
50 - .1	100 + .1	50 + 0	100 + .1	

	.08	.05	0°	.45	0	10.0	-5.0°	1.048	2032.1	.002194	
a) 1	-	.1	51	-	.1	b) 1	+ 0	51	-	.1	
2	-	.1	52	-	1.6	2	- 0	52	-	1.5	
3	-	.1	53	-	.1	3	- 0	53	-	.1	
4	-	1.4	54	-	10.2	4	-	.1	54	-	4.2
5	-	0	55	-	7.0	5	-	.3	55	-	4.4
6	-	0	56	-	6.0	6	-	.3	56	-	1.9
7	-	0	57	-	6.2	7	-	.4	57	-	2.4
8	-	0	58	-	7.0	8	-	.5	58	-	4.0
9	-	0	59	-	3.8	9	-	.6	59	-	3.8
10	-	3.4	60	-	4.0	10	-	1.5	60	-	3.9
11	-	.1	61	-	6.4	11	-	4.5	61	-	4.3
12	-	.1	62	-	5.2	12	-	0	62	-	5.8
13	-	.1	63	-	3.9	13	-	.4	63	-	6.3
14	-	.1	64	-	5.5	14	-	1.1	64	-	2.0
15	-	.1	65	-	6.8	15	-	.2	65	-	5.0
16	-	.1	66	-	3.0	16	-	.3	66	-	11.8
17	-	.1	67	-	7.6	17	-	.3	67	-	14.9
18	-	1	68	-	6.0	18	-	.3	68	-	1.7
19	-	.1	69	-	7.3	19	-	.4	69	-	6.6
20	-	.1	70	-	1.3	20	-	.4	70	-	1.8
21	-	.1	71	-	1.0	21	-	.4	71	-	2.1
22	-	.1	72	-	4.1	22	-	.4	72	-	2.5
23	-	.1	73	-	7.2	23	-	.4	73	-	4.1
24	-	.1	74	-	.2	24	-	.9	74	-	.0
25	-	.1	75	-	.1	25	-	.7	75	-	.1
26	-	.1	76	-	5.1	26	-	.6	76	-	.5
27	-	.1	77	-	7.0	27	-	.6	77	-	8.0
28	-	.1	78	-	.5	28	-	.6	78	-	22.7
29	-	.1	79	-	1.7	29	-	.6	79	-	23.7
30	-	.1	80	-	7.2	30	-	.6	80	-	10.4
31	-	.1	81	-	3.1	31	-	.5	81	-	3.4
32	-	.1	82	-	3.7	32	-	.4	82	-	4.1
33	-	.1	83	-	17.0	33	-	.4	83	-	4.0
34	-	.1	84	-	1.5	34	-	.4	84	-	6.5
35	-	.1	85	-	1.8	35	-	.4	85	-	7.3
36	-	.1	86	-	4.4	36	-	0	86	-	7.5
37	-	.1	87	-	7.0	37	-	.1	87	-	2.6
38	-	.1	88	-	.5	38	-	.2	88	-	4.9
39	-	.1	89	-	17.3	39	-	.2	89	-	2.8
40	-	.1	90	-	9.0	40	-	0	90	-	5.8
41	-	.1	91	-	1.8	41	-	0	91	-	6.9
42	-	.1	92	-	.1	42	-	0	92	-	7.1
43	-	.1	93	-	6.9	43	-	0	93	-	2.2
44	-	.1	94	-	5.1	44	-	0	94	-	3.7
45	-	.1	95	-	6.1	45	-	0	95	-	5.4
46	-	.1	96	-	7.0	46	-	0	96	-	6.3
47	-	.1	97	-	4.2	47	-	0	97	-	6.0
48	-	.1	98	-	.1	48	-	0	98	-	6.1
49	-	.1	99	-	.1	49	-	0	99	-	7.1
50	-	1	100	-	.1	50	-	0	100	-	.1

Sec. 5

1869	.05	0°	,15	0	10.0	+2.5°	1.049	2032.6	.002194
a) 1 - .1		51 + .1		b) 1 + 0		51 + .1		c) 1 + .2	
2 - .1		52 + .8		2 + 0		52 + 1.0		2 - 11.7	
3 - .1		53 + .1		3 + 0		53 + .1		3 - 19.6	
4 - .1		54 + 9.5		4 + 0		54 + 5.1		4 - 17.1	
5 - .1		55 + 7.2		5 + 0		55 + 5.6		5 - 8.8	
6 - .1		56 + 5.8		6 + 0		56 + 2.8		6 + 5.8	
7 - .1		57 + 5.9		7 + 0		57 + 4.0		7 + .1	
8 - .1		58 + 6.5		8 + 0		58 + 5.6		8 + 19.6	
9 + 0		59 + 4.5		9 + .3		59 + 5.7		9 + 33.2	
10 + 1.8		60 + 5.3		10 + .5		60 + 5.7		10 + 39.3	
11 - .1		61 + 6.2		11 + 6.8		61 + 5.7		11 - 5.5	
12 - .1		62 + 6.3		12 + 0		62 + 6.1		12 - 10.1	
13 - .1		63 + 6.1		13 + 0		63 + 6.7		13 - 11.6	
14 + 0		64 + 6.1		14 + 7.3		64 + 2.9		14 - 8.6	
15 + 0		65 + 6.6		15 + .1		65 + 6.1		15 + 4.5	
16 + .1		66 + 4.5		16 + 0		66 + 10.6		16 - 5.7	
17 + .1		67 + 4.7		17 + 0		67 + 11.0		17 + 5.1	
18 + .1		68 + 6.5		18 + 0		68 + 9.3		18 + 25.5	
19 + .1		69 + 6.9		19 + 0		69 + 5.8		19 + 39.6	
20 + .1		70 + 3.0		20 + 0		70 + 3.5		20 + .2	
21 + .1		71 + 3.4		21 + 0		71 + 4.0		21 - .7	
22 + .1		72 + 5.0		22 + 0		72 + 4.2		22 - 3.8	
23 + .1		73 + 6.7		23 + 0		73 + 5.0		23 - 4.8	
24 + ..1		74 + 2.3		24 + 2.6		74 + .2		24 - 3.7	
25 + 0		75 + 2.5		25 + 0		75 + .7		25 + .7	
26 + 0		76 + 5.1		26 + 0		76 + 5.9		26 - 1.9	
27 + 0		77 + 7.4		27 + 0		77 + 17.0		27 + .2	
28 + 0		78 + 4.8		28 + 0		78 + 17.3		28 + 8.3	
29 + 0		79 + 5.0		29 + 0		79 + 11.9		29 + 24.2	
30 + 0		80 + 7.2		30 + 0		80 + 6.1		30 + .1	
31 + 0		81 + 7.9		31 + 0		81 + 5.7			
32 + 0		82 + 8.1		32 + 0		82 + 5.9		Seq. 5	
33 + 0		83 + 15.9		33 + 0		83 + 6.2			
34 + 0		84 + 1.4		34 + 0		84 + 6.3			
35 + 0		85 + 4.2		35 + 0		85 + 6.8			
36 + 0		86 + 5.7		36 + 0		86 + 7.0			
37 + 0		87 + 6.8		37 + 0		87 + 5.8			
38 + .1		88 + .8		38 + 0		88 + 5.8			
39 + 0		89 + 4.7		39 + 0		89 + 4.7			
40 + 0		90 + 3.8		40 + 0		90 + 5.7			
41 + 0		91 + .1		41 + 0		91 + 6.4			
42 + 0		92 + 7.0		42 + 0		92 + 7.9			
43 + 0		93 + 6.0		43 + 0		93 + 3.8			
44 + .1		94 + 6.4		44 + 0		94 + 4.4			
45 + .1		95 + 6.6		45 + 0		95 + 5.2			
46 - .1		96 + 3.8		46 + 0		96 + 5.9			
47 - .1		97 + .1		47 + 0		97 + 5.9			
48 - .1		98 + 1		48 + 0		98 + 6.1			
49 - .1		99 + .1		49 + 0		99 + 6.6			
50 - .1		100 + .1		50 + 0		100 + .1			

1870	.05	0°	.15	0	10.0	0°	1.049	2032.6	.002194
a) 1 - .1		51 + .1		b) 1 + 0		51 + .2		c) 1 + .1	
2 - .1		52 + .4		2 + 0		52 + .7		2 - 4.4	
3 - .1		53 + .1		3 + 0		53 + .2		3 - 10.3	
4 - .1		54 + 7.8		4 + 0		54 + 5.9		4 - 9.6	
5 + 0		55 + 7.9		5 + 0		55 + 9.0		5 - 4.2	
6 + 0		56 + 7.6		6 + 0		56 + 7.3		6 + 7.2	
7 + 0		57 + 6.1		7 + 0		57 + 9.1		7 - 1.8	
8 + 0		58 + 0.3		8 + 0		58 + 9.0		8 + 10.5	
9 + 0		59 + 6.0		9 + 0		59 + 6.4		9 + 27.8	
10 + 1.4		60 + 6.2		10 + 0		60 + 6.1		10 + 38.8	
11 + .1		61 + 6.7		11 + 5.6		61 + 6.2		11 - 4.3	
12 + .1		62 + 6.8		12 + 0		62 + 7.2		12 - 8.5	
13 + .1		63 + 6.8		13 + 0		63 + 7.8		13 - 9.9	
14 + .1		64 + 7.1		14 + 5.5		64 + 4.1		14 - 6.2	
15 + .1		65 + 7.2		15 + 0		65 + 8.2		15 + 3.7	
16 + 0		66 + 6.6		16 + 0		66 + 12.2		16 - 3.5	
17 + 0		67 + 6.6		17 + 0		67 + 11.8		17 + 9.7	
18 + 0		68 + 7.2		18 + 0		68 + 8.4		18 + 29.7	
19 + 0		69 + 7.3		19 + 0		69 + 6.1		19 + 42.9	
20 + 0		70 + 4.6		20 + 0		70 + 5.0		20 + .2	
21 + 0		71 + 5.2		21 + 0		71 + 5.7		21 - 4.7	
22 + 0		72 + 6.1		22 + 0		72 + 5.9		22 - 10.0	
23 + .1		73 + 6.4		23 + 0		73 + 6.2		23 - 10.0	
24 + .1		74 + 5.7		24 + 5.9		74 + 3.0		24 - 5.2	
25 + .1		75 + 5.3		25 + 0		75 + 6.7		25 + 5.8	
26 + .1		76 + 5.6		26 + 0		76 + 10.4		26 - 4.2	
27 + .1		77 + 6.7		27 + 0		77 + 10.5		27 + 6.6	
28 + .1		78 + 6.9		28 + 0		78 + 7.9		28 + 18.9	
29 + 1		79 + 6.9		29 + 0		79 + 6.8		29 + 32.7	
30 + .2		80 + 7.1		30 + 0		80 + 6.8		30 + .2	
31 + .2		81 + 7.3		31 + 0		81 + 6.9			
32 + .2		82 + 7.5		32 + 0		82 + 7.2		Seq. 5	
33 + .2		83 + 9.7		33 + 0		83 + 7.4			
34 + .2		84 + 1.4		34 + 0		84 + 7.4			
35 + .2		85 + 5.8		35 + 0		85 + 7.5			
36 + .2		86 + 6.4		36 + 0		86 + 7.6			
37 + .2		87 + 6.9		37 + 0		87 + 10.6			
38 + .2		88 + 5.0		38 + 0		88 + 6.5			
39 + .2		89 + 9.8		39 + 0		89 + 5.7			
40 + .2		90 + 4.9		40 + 0		90 + 6.5			
41 + .2		91 + 5.5		41 + 0		91 + 7.0			
42 + .2		92 + .1		42 + 0		92 + 10.8			
43 + .2		93 + 6.5		43 + 0		93 + 5.9			
44 + .2		94 + 6.4		44 + 0		94 + 5.9			
45 + .2		95 + 6.3		45 + 0		95 + 6.2			
46 + .1		96 + 6.3		46 + 0		96 + 6.5			
47 + .1		97 + 3.4		47 + 0		97 + 6.7			
48 + .1		98 + .1		48 + 0		98 + 6.9			
49 + .1		99 + .1		49 + 0		99 + 7.1			
50 + .1		100 + .1		50 + 0		100 + .1			

1871 .05 0° .15 0 10.0 -2.5° 1.049 2032.6 .002194

a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .1	52 + 1.1	2 + 0	52 + .5	2 + .3
3 + .1	53 + .4	3 + 0	53 + .1	3 - 2.7
4 + .1	54 + 5.3	4 + 0	54 + 1.8	4 - 3.7
5 + .1	55 + 6.5	5 + 0	55 + 3.3	5 - 1.9
6 + .1	56 + 8.0	6 + 0	56 + 3.2	6 + 3.3
7 + .1	57 + 8.2	7 + 0	57 + 12.3	7 - .8
8 + .3	58 + 4.8	8 + 0	58 + 18.5	8 + 1.6
9 + .5	59 + 4.7	9 + 0	59 + 12.7	9 + 15.7
10 + 1.5	60 + 6.6	10 + 0	60 + 6.9	10 + 31.1
11 + 0	61 + 8.1	11 + 1.4	61 + 4.3	11 - 8.2
12 + 0	62 + 5.2	12 + 0	62 + 5.7	12 - 13.5
13 + 0	63 + 5.6	13 + .2	63 + 6.4	13 - 15.0
14 + .1	64 + 7.2	14 + 2.7	64 + 3.2	14 - 9.2
15 + .3	65 + 8.1	15 + .2	65 + 7.6	15 + 4.7
16 + .2	66 + 5.9	16 + 0	66 + 14.0	16 - 5.4
17 + .4	67 + 5.7	17 + 0	67 + 13.6	17 + 11.2
18 + 0	68 + 7.0	18 + .1	68 + 8.5	18 + 32.2
19 + .1	69 + 7.7	19 + .1	69 + 4.9	19 + 44.2
20 + .2	70 + 5.2	20 + .1	70 + 3.4	20 + .1
21 + .1	71 + 5.3	21 + .1	71 + 3.6	21 - 11.9
22 + .4	72 + 6.0	22 + .1	72 + 3.8	22 - 20.0
23 + .5	73 + 7.0	23 + .1	73 + 4.6	23 - 17.1
24 + .5	74 + 6.9	24 + 7.1	74 + 3.8	24 - 9.3
25 + 0	75 + 5.8	25 + 1	75 + 3.9	25 + 6.0
26 + .1	76 + 5.9	26 + 3	76 + 4.2	26 - 2.5
27 + .1	77 + 7.3	27 + .4	77 + 4.8	27 + 15.7
28 + .1	78 + 8.5	28 + .4	78 + 5.5	28 + 23.7
29 + .2	79 + 8.0	29 + .4	79 + 5.0	29 + 33.9
30 + .1	80 + 7.9	30 + .4	80 + 6.0	30 + .1
31 + .2	81 + 7.9	31 + .1	81 + 6.1	
32 + 0	82 + 8.6	32 + 0	82 + 6.1	Seq. 5
33 + 0	83 + 8.7	33 + .2	83 + 6.1	
34 + 0	84 + 1.8	34 + .2	84 + 6.6	
35 + 0	85 + 6.1	35 + .2	85 + 7.4	
36 + .1	86 + 6.5	36 + .2	86 + 7.6	
37 + 0	87 + 7.6	37 + .3	87 + 20.9	
38 + .1	88 + 7.8	38 + .9	88 + 5.1	
39 + 0	89 + 6.8	39 + 1.5	89 + 4.8	
40 + 0	90 + 4.2	40 + 0	90 + 6.0	
41 + 0	91 + 5.4	41 + 0	91 + 7.2	
42 + 0	92 + .1	42 + 0	92 + 18.9	
43 + .2	93 + 7.2	43 + 0	93 + 4.8	
44 + 0	94 + 6.5	44 + 0	94 + 4.5	
45 + .1	95 + 6.7	45 + 0	95 + 5.5	
46 + 0	96 + 6.9	46 + 0	96 + 6.3	
47 + 0	97 + 4.5	47 + 0	97 + 5.8	
48 + 0	98 + .1	48 + 0	98 + 6.3	
49 + 0	99 + .1	49 + 0	99 + 6.9	
50 + 0	100 + .1	50 + 0	100 + .1	

1872	.05	0°	.15	0	10.0	-5.0°	1	048	2032.6	.002194
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a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + .2	52 + 1.4	2 + .2	52 + .5	2 + 1.3
3 + .2	53 + .5	3 + .2	53 + .1	3 + .8
4 + .2	54 + 1.9	4 + .2	54 + 1.4	4 + 2.0
5 + .2	55 + 3.4	5 + .2	55 + 1.0	5 + 1.3
6 + .2	56 + 7.9	6 + .2	56 + .4	6 + 1.3
7 + .2	57 + 8.1	7 + .2	57 + 1.7	7 + .3
8 + .3	58 + 2.3	8 + .2	58 + 19.2	8 + 1.0
9 + .3	59 + 1.0	9 + .2	59 + 26.2	9 + 9.7
10 + 1.0	60 + 6.2	10 + .2	60 + 16.5	10 + 22.4
11 + 0	61 + 8.3	11 + .2	61 + 3.2	11 + 10.8
12 + 0	62 + 2.0	12 + .1	62 + 3.3	12 + 16.0
13 + 0	63 + 2.8	13 + .2	63 + 4.1	13 + 17.4
14 + 0	64 + 6.7	14 + 1.0	64 + 2.3	14 + 11.2
15 + .1	65 + 8.1	15 + .2	65 + 5.7	15 + .6
16 + .1	66 + 3.7	16 + 0	66 + 12.5	16 + 8.8
17 + .2	67 + 3.4	17 + 0	67 + 13.8	17 + 6.7
18 + .2	68 + 6.3	18 + .2	68 + 9.6	18 + 30.3
19 + .2	69 + 7.8	19 + 3	69 + 4.5	19 + 45.7
20 + .2	70 + 3.7	20 + 0	70 + 1.0	20 + .1
21 + .2	71 + 3.6	21 + .1	71 + 1.3	21 + 19.0
22 + .2	72 + 5.0	22 + 1	72 + 1.6	22 + 26.7
23 + .3	73 + 6.6	23 + .2	73 + 3.6	23 + 11.7
24 + .4	74 + 6.8	24 + 7.3	74 + 2.3	24 + 12.6
25 + .4	75 + 3.7	25 + .3	75 + 2.3	25 + 4.7
26 + .4	76 + 4.7	26 + .3	76 + 2.3	26 + 2.1
27 + .4	77 + 7.1	27 + 5	77 + 2.2	27 + 27.2
28 + .4	78 + 8.8	28 + .5	78 + 3.5	28 + 28.5
29 + .4	79 + 5.9	29 + 5	79 + 4.0	29 + 34.3
30 + .4	80 + 6.2	30 + 1.7	80 + 4.2	30 + .1
31 + 4	81 + 7.0	31 + .1	81 + 4.7	
32 + .4	82 + 8.5	32 + .2	82 + 5.3	Seq. 5
33 + .1	83 + 5.5	33 + .2	83 + 5.5	
34 + .1	84 + .9	34 + 4	84 + 5.8	
35 + .2	85 + 4.5	35 + .4	85 + 7.1	
36 + .2	86 + 5.8	36 + .5	86 + 7.4	
37 + .2	87 + 7.6	37 + .9	87 + 21.6	
38 + .3	88 + 7.5	38 + 1.4	88 + 2.1	
39 + 1	89 + 2.1	39 + 1.8	89 + 7.4	
40 + .1	90 + 2.7	40 + 0	90 + 5.3	
41 + .1	91 + 4.7	41 + 0	91 + 6.7	
42 + .1	92 + .1	42 + 0	92 + 23.0	
43 + 1	93 + 7.2	43 + 0	93 + 5.0	
44 + .1	94 + 5.8	44 + 0	94 + 1.7	
45 + .2	95 + 6.2	45 + 0	95 + 4.5	
46 + 0	96 + 6.8	46 + 0	96 + 6.2	
47 + 0	97 + 4.9	47 + 0	97 + 5.4	
48 + 0	98 + .1	48 + 0	98 + 5.9	
49 + 0	99 + .1	49 + 0	99 + 6.9	
50 + 0	100 + .1	50 + 0	100 + .1	

	1903	.05	0°	.10	0	10.0	+5.0°	1.010	2030.4	.002225
a) 1 + 0	51	- .1	b) 1 + 0	51	- .1	c) 1 + .1	51	- .1	d) 1 - 3.4	
2 + 0	52	- 1.6	2 + 0	52	- .9	3 - 5.3	52	- .9	3 - 5.3	
3 + 0	53	- .9	3 + 0	53	- .1	4 - 4.3	53	- .1	4 - 4.3	
4 + 0	54	- 5.1	4 + 0	54	- 3.2	5 - 3.4	54	- 3.2	5 - 3.4	
5 + 0	55	- 4.1	5 + 0	55	- 3.1	6 - .3	55	- 3.1	6 - .3	
6 + 0	56	- 2.9	6 + 0	56	- 1.2	7 - .1	56	- 1.2	7 - .1	
7 + 0	57	- 1.8	7 + 0	57	- .9	8 - 2.9	57	- .9	8 - 2.9	
8 + 0	58	- 3.5	8 + 0	58	- 2.5	9 - 7.0	58	- 2.5	9 - 7.0	
9 + 0	59	- 2.3	9 + 0	59	- 1.0	10 - 8.7	59	- 1.0	10 - 8.7	
10 + 5.2	60	- 2.5	10 + 0	60	- 1.3	11 + 1	60	- 1.3	11 + 1	
11 + 0	61	- 2.4	11 + .3	61	- 1.6	12 + .7	61	- 1.6	12 + .7	
12 + 0	62	- 3.0	12 + .1	62	- 2.0	13 + .9	62	- 2.0	13 + .9	
13 + 0	63	- 3.1	13 + 0	63	- 3.1	14 + .2	63	- 3.1	14 + .2	
14 + 0	64	- 3.1	14 + .7	64	- 1.0	15 + .2	64	- 1.0	15 + .2	
15 + 0	65	- 2.3	15 + 0	65	- 1.4	16 + .4	65	- 1.4	16 + .4	
16 + 0	66	- 2.0	16 + 0	66	- 3.5	17 + 1.4	66	- 3.5	17 + 1.4	
17 + 0	67	- 2.2	17 + 0	67	- 4.3	18 + 7.0	67	- 4.3	18 + 7.0	
18 + 0	68	- 3.0	18 + 0	68	- 2.1	19 + 7.0	68	- 2.1	19 + 7.0	
19 + 0	69	- 2.5	19 + 0	69	- 1.7	20 + 7.0	69	- 1.7	20 + 7.0	
20 + 0	70	- 1.0	20 + 0	70	- .4	21 + .1	70	- .4	21 + .1	
21 + 0	71	- 1.5	21 + 0	71	- .8	22 + 2.0	71	- .8	22 + 2.0	
22 + 0	72	- 1.8	22 + 0	72	- .9	23 + 1.9	72	- .9	23 + 1.9	
23 + 0	73	- 2.1	23 + 0	73	- 1.2	24 + 1.7	73	- 1.2	24 + 1.7	
24 + 0	74	- 1.0	24 + 0	74	- .1	25 + 1.5	74	- .1	25 + 1.5	
25 + 0	75	- 1.5	25 + 0	75	- .7	26 + .5	75	- .7	26 + .5	
26 + 0	76	- 2.0	26 + 0	76	- .6	27 + .5	76	- .6	27 + .5	
27 + 0	77	- 2.5	27 + 0	77	- 1.3	28 + .6	77	- 1.3	28 + .6	
28 + 0	78	- 1.7	28 + 0	78	- 1.3	29 + 2.5	78	- 1.3	29 + 2.5	
29 + 0	79	- 3.0	29 + 0	79	- 5.1	30 + .1	79	- 5.1	30 + .1	
30 + 0	70	- 3.1	30 + 0	80	- 2.1	S. q. 5	80	- 2.1	S. q. 5	
31 + 0	71	- 3.1	31 + 0	81	- 1.9		81	- 1.9		
32 + 0	72	- 3.1	32 + 0	82	- 2.3		82	- 2.3		
33 + 0	73	- 5.9	33 + 0	83	- 2.0		83	- 2.0		
34 + 0	74	- 1.0	34 + 0	84	- 1.8		84	- 1.8		
35 + 0	75	- 2.3	35 + 0	85	- 2.1		85	- 2.1		
36 + 0	76	- 2.4	36 + 0	86	- 1.9		86	- 1.9		
37 + 0	77	- 3.1	37 + 0	87	- 1.6		87	- 1.6		
38 + 0	78	- .9	38 + 0	88	- 1.9		88	- 1.9		
39 + 0	79	- 4.1	39 + 0	89	- 1.4		89	- 1.4		
40 + 0	80	- 2.0	40 + 0	90	- 1.5		90	- 1.5		
41 + 0	81	- 1.8	41 + 0	91	- 1.6		91	- 1.6		
42 + 0	82	- .5	42 + 0	92	- 1.7		92	- 1.7		
43 + 0	83	- 2.2	43 + 0	93	- .9		93	- .9		
44 + 0	84	- 1.9	44 + 0	94	- 1.0		94	- 1.0		
45 + 0	85	- 1.7	45 + 0	95	- 1.0		95	- 1.0		
46 + 0	86	- 1.8	46 + 0	96	- 1.3		96	- 1.3		
47 + 0	87	- 1.0	47 + 0	97	- 1.4		97	- 1.4		
48 + 0	88	- .3	48 + 0	98	- 1.6		98	- 1.6		
49 + 0	89	- .4	49 + 0	99	- 1.8		99	- 1.8		
50 + 0	100	- .2	50 + 0	100	- .1		100	- .1		

1904 .05 0° .10 0 10.0 +2.5° 1.010 2032.6 .002225

a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + .9	2 + 0	52 + 1.4	2 + .1
3 + 0	53 + .1	3 + 0	53 + .1	3 - 3.2
4 + 0	54 + 4.4	4 + 0	54 + 2.9	4 - 2.6
5 + 0	55 + 4.0	5 + 0	55 + 3.1	5 + .2
6 + 0	56 + 2.5	6 + 0	56 + 1.4	6 + 1.3
7 + 0	57 + 1.3	7 + 0	57 + 1.5	7 + 1.3
8 + 0	58 + 2.6	8 + 0	58 + 2.5	8 + 3.2
9 + 0	59 + 1.8	9 + 0	59 + 2.0	9 + 7.8
10 + 1.7	60 + 1.8	10 + 1.0	60 + 2.0	10 + 10.4
11 + 0	61 + 1.9	11 - .1	61 + 2.0	11 + .7
12 + 0	62 + 2.7	12 - .1	62 + 2.8	12 + .1
13 + 0	63 + 2.8	13 + 1.1	63 + 3.0	13 + .1
14 + 0	64 + 2.9	14 - .1	64 + .8	14 + .1
15 + 0	65 + 2.5	15 - .1	65 + 1.3	15 + 1.1
16 + 0	66 + 2.4	16 - .1	66 + 3.2	16 + 1.3
17 + 0	67 + 2.4	17 - .1	67 + 3.3	17 + 2.1
18 + 0	68 + 2.6	18 - .1	68 + 3.0	18 + 6.7
19 + 0	69 + 2.0	19 - .1	69 + 1.9	19 + 9.5
20 + 0	70 + .7	20 - .1	70 + .9	20 + .9
21 + 0	71 + 1.4	21 - .1	71 + 1.3	21 + .3
22 + 0	72 + 1.6	22 - .1	72 + 1.4	22 + .1
23 + 0	73 + 1.6	23 - .1	73 + 1.5	23 + .1
24 + 0	74 + 1.0	24 - .1	74 + .1	24 + .1
25 + 0	75 + 1.1	25 - .1	75 + .1	25 + .3
26 + 0	76 + 1.5	26 - .1	76 + .3	26 + .4
27 + 0	77 + 2.0	27 - .1	77 + 4.4	27 + .5
28 + 0	78 + 2.1	28 - .1	78 + 4.3	28 + 1.6
29 + 0	79 + 2.5	29 - .1	79 + 3.6	29 + 4.4
30 + 0	80 + 2.6	30 - .1	80 + 2.1	30 + .1
31 + 0	81 + 2.5	31 - .1	81 + 2.3	•••
32 + 0	82 + 2.6	32 - .1	82 + 2.5	Seq. 5
33 + 0	83 + 4.6	33 - .1	83 + 2.6	
34 + 0	84 + .7	34 - .1	84 + 2.1	
35 + 0	85 + 1.8	35 - .1	85 + 2.2	
36 + 0	86 + 2.0	36 - .1	86 + 2.3	
37 + 0	87 + 2.4	37 - .1	87 + 2.3	
38 + 0	88 + .3	38 - .1	88 + 2.3	
39 + 0	89 + 4.5	39 - .1	89 + 2.3	
40 + 0	90 + 1.5	40 - .1	90 + 1.7	
41 + 0	91 + 1.6	41 - .1	91 + 1.8	
42 + 0	92 + .1	42 - .1	92 + 2.2	
43 + 0	93 + 1.8	43 - .1	93 + 1.4	
44 + 0	94 + 1.6	44 - .1	94 + 1.2	
45 + 0	95 + 1.5	45 - .1	95 + 1.4	
46 + 0	96 + 1.3	46 - .1	96 + 1.5	
47 + 0	97 + 1.1	47 - .1	97 + 1.6	
48 + 0	98 + .1	48 - .1	98 + 1.7	
49 + 0	99 + .1	49 - .1	99 + 2.0	
50 + 0	100 + .1	50 - .1	100 + .1	

	1905	.05	0°	.10	0	10.0	0°	1.010	2032.6	.002225
a) 1 + 0			51 + .2		b) 1 + .1		51 + .1		c) 1 + .1	
2 + 0			52 + 1.2		2 + .1		52 + 1.0		2 + .1	
3 + 0			53 + .1		3 + .1		53 + .1		3 - 2.1	
4 + 0			54 + 4.0		4 + .1		54 + 2.7		4 - 1.9	
5 + 0			55 + 3.8		5 + .1		55 + 3.7		5 + .7	
6 + 0			56 + 2.5		6 + .1		56 + 1.8		6 + .7	
7 + 0			57 + 1.4		7 + .1		57 + 2.2		7 + .8	
8 + 0			58 + 2.4		8 + .1		58 + 3.0		8 + 2.5	
9 + 0			59 + 2.4		19 + .1		59 + 2.2		9 + 6.2	
10 + 1.1			60 + 2.4		10 + .1		60 + 2.0		10 + 8.1	
11 + .1			61 + 2.4		11 + .3		61 + 2.0		11 + .1	
12 + 0			62 + 2.7		12 + .1		62 + 2.7		12 + .1	
13 + 0			63 + 3.2		13 + .1		63 + 3.1		13 + .1	
14 + 0			64 + 3.1		14 + .2		64 + .9		14 + .1	
15 + 0			65 + 2.8		15 + 0		65 + 1.5		15 + .9	
16 + 0			66 + 2.2		16 + 0		66 + 3.4		16 + 1.2	
17 + 0			67 + 2.5		17 + 0		67 + 3.5		17 + 1.4	
18 + 0			68 + 2.7		18 + 0		68 + 2.9		18 + 5.6	
19 + 0			69 + 2.6		19 + 0		69 + 2.1		19 + 8.0	
20 + 0			70 + 1.1		20 + 0		70 + 1.3		20 + .1	
21 + 0			71 + 1.6		21 + 0		71 + 1.5		21 - 1.4	
22 + 0			72 + 1.7		22 + 0		72 + 1.6		22 - 2.6	
23 - 0			73 + 1.7		23 + 0		73 + 1.7		23 - 2.6	
2. - 0			74 + 1.8		24 + .2		74 + .1		24 - 2.5	
25 - 0			75 + 1.8		25 + 0		75 + .5		25 + .2	
2. - 0			76 + 1.5		26 + 0		76 + 2.3		26 - 1.5	
27 + 0			77 + 2.0		27 + 0		77 + 3.0		27 + .2	
28 + 0			78 + 2.3		28 + 0		78 + 2.9		28 + 2.4	
29 + 0			79 + 2.7		29 + 0		79 + 2.9		29 + 5.2	
30 + 0			80 + 2.6		30 + 0		80 + 2.9		30 + .1	
31 + 0			81 + 2.6		31 + 0		81 + 2.8			
32 + 0			82 + 2.7		32 + 0		82 + 2.8		Seq. 5	
33 + 0			83 + 2.9		33 + 0		83 + 2.6			
34 + 0			84 + .7		34 + 0		84 + 2.6			
35 + 0			85 + 2.0		35 + 0		85 + 2.6			
36 + 0			86 + 2.1		36 + 0		86 + 2.5			
37 + 0			87 + 2.5		37 + 0		87 + 3.0			
38 + 0			88 + .8		38 + 0		88 + 2.7			
39 + 0			89 + 2.6		39 + 0		89 + 1.9			
40 + 0			90 + 1.8		40 + 0		90 + 1.9			
41 + 0			91 + 1.9		41 + 0		91 + 2.0			
42 + 0			92 + .2		42 + 0		92 + 3.0			
43 + 0			93 + 1.9		43 + 0		93 + 1.7			
44 + 0			94 + 1.7		44 + 0		94 + .6			
45 + 0			95 + 1.7		45 + 0		95 + 1.6			
46 + 0			96 + 1.7		46 + 0		96 + 1.6			
47 + 0			97 + 1.0		47 + 0		97 + 1.7			
48 + 0			98 + .1		48 + 0		98 + 2.0			
49 + 0			99 + 1		49 + 0		99 + 2.0			
50 + 0			100 + 1		50 + 0		100 + .1			

	1906	.05	0°	.10	0	10.0	-2.5°	1.010	2032.6	.002225	
a) 1	-	.1	51	+	.1	b) 1	-	.1	51	~	.1
2	-	.1	52	+	1.0	2	-	.1	52	+	.8
3	-	.1	53	+	.1	3	-	.1	53	+	.1
4	-	.1	54	+	3.7	4	-	.1	54	+	2.4
5	-	.1	55	+	3.8	5	-	.1	55	+	2.0
6	-	.1	56	+	3.1	6	-	.1	56	+	.5
7	-	.1	57	+	1.3	7	-	.1	57	+	2.4
8	-	.1	58	+	2.1	8	-	.1	58	+	4.6
9	-	.1	59	+	2.2	9	-	.1	59	+	2.7
10	+	.2	60	+	2.2	10	-	.1	60	+	1.2
11	+	0	61	+	2.2	11	-	.1	61	+	1.4
12	-	.1	62	+	2.3	12	-	.1	62	+	2.4
13	-	.1	63	+	2.8	13	-	.1	63	+	2.0
14	-	.1	64	+	3.0	14	-	.1	64	+	.5
15	-	.1	65	+	2.8	15	-	0	65	+	1.0
16	-	.1	66	+	2.5	16	-	0	66	+	3.0
17	-	.1	67	+	2.5	17	-	0	67	+	3.3
18	-	.1	68	+	2.5	18	-	0	68	+	2.9
19	-	.1	69	+	2.4	19	-	0	69	+	2.4
20	-	.1	70	+	1.2	20	-	0	70	+	1.2
21	-	.1	71	+	1.2	21	-	0	72	+	1.2
22	-	.1	72	+	1.2	22	-	0	72	+	1.0
23	-	.1	73	+	1.4	23	-	0	73	+	1.1
24	-	.1	74	+	1.6	24	-	1.1	74	+	.8
25	-	.1	75	+	1.4	25	-	0	75	+	.8
26	-	.1	76	+	1.4	26	-	0	76	+	.8
27	-	.1	77	+	1.8	27	-	0	77	+	1.3
28	-	.1	78	+	2.3	28	-	.1	78	+	1.3
29	-	.1	79	+	2.6	29	-	.1	79	+	1.9
30	-	.1	80	+	2.7	30	-	.1	80	+	2.1
31	-	.1	81	+	2.6	31	-	.1	81	+	2.1
32	-	.1	82	+	2.6	32	-	.1	82	+	2.1
33	-	.1	83	+	2.5	33	-	.1	83	+	2.2
34	-	.1	84	+	.8	34	-	.1	84	+	2.2
35	-	.1	85	+	1.8	35	-	.1	85	+	2.2
36	-	.1	86	+	2.0	36	-	.1	86	+	2.2
37	-	.1	87	+	2.1	37	-	.1	87	+	4.8
38	-	.1	88	+	2.2	38	-	.1	88	+	1.5
39	-	.1	89	+	2.3	39	-	.1	89	+	1.5
40	-	.1	90	+	1.9	40	-	.1	90	+	1.5
41	-	.1	91	+	1.9	41	-	.1	91	+	1.5
42	-	.1	92	+	.2	42	-	.1	92	+	3.4
43	-	.1	93	+	1.7	43	-	.1	93	+	.7
44	-	.1	94	+	1.7	44	-	.1	94	+	.8
45	-	.1	95	+	1.5	45	-	.1	95	+	.8
46	-	.1	96	+	1.4	46	-	.1	96	+	.8
47	-	.1	97	+	1.3	47	-	.1	97	+	.9
48	-	.1	98	+	.2	48	-	.1	98	+	1.1
49	-	.1	99	+	.1	49	-	.1	99	+	1.3
50	-	.1	100	+	.1	50	-	.1	100	+	.1

Seq. 5

1907	.05	0°	.10	0	10.0	-5.0°	1.009	2032.6	.002225
a) 1 + 0		51 + .1		b) 1 - .1	51 + .1		c) 1 - .1		
2 + 0		52 + .7		2 - 0	52 + .8		2 + .2		
3 + 0		53 + .1		3 + 0	53 + .5		3 + .1		
4 + 0		54 + 2.7		4 + 0	54 + 2.0		4 + .1		
5 + 0		55 + 3.1		5 + 0	55 + 2.2		5 + .1		
6 + 0		56 + 1.8		6 + 0	56 + 1.6		6 + .1		
7 + 0		57 + 1.5		7 + 0	57 + .5		7 + .2		
8 + 0		58 + 1.5		8 + 0	58 + 5.4		8 + .4		
9 + 0		59 + 1.5		9 + 0	59 + 5.5		9 + 2.2		
10 + .2		60 + 1.5		10 + 0	60 + 2.4		10 + 4.3		
11 - .1		61 + 1.5		11 + 0	61 + 2.2		11 - 1.3		
12 - .1		62 + 1.6		12 + 0	62 + 2.5		12 - 3.6		
13 + 0		63 + 1.8		13 + 0	63 + 2.7		13 - 3.4		
14 + 0		64 + 2.0		14 + 0	64 + 1.0		14 - 2.6		
15 + 0		65 + 2.0		15 + 0	65 + 1.0		15 + .2		
16 + 0		66 + 2.0		16 + 0	66 + 3.0		16 + .2		
17 + 0		67 + 2.0		17 + 0	67 + 3.6		17 + 1.6		
18 + 0		68 + 1.3		18 + 0	68 + 3.7		18 + 5.5		
19 + 0		69 + 1.9		19 + 0	69 + 2.7		19 + 7.4		
20 + .1		70 + .3		20 + 0	70 + 1.4		20 + .1		
21 + 0		71 + .3		21 + 0	71 + 1.4		21 - 3.3		
22 + 0		72 + .4		22 + 0	72 + 1.4		22 - 5.0		
23 + .1		73 + .5		23 + 0	73 + 1.4		23 - 5.0		
24 + .1		74 + .7		24 + 1.3	74 + 1.3		24 - 4.3		
25 + .1		75 + .7		25 + .1	75 + 1.3		25 + .3		
26 + .1		76 + .7		26 + 0	76 + 1.3		26 - 2.0		
27 + .1		77 + .9		27 + .1	77 + 1.3		27 + .3		
28 + .1		78 + 1.4		28 + .1	78 + 1.5		28 + 2.5		
29 + .2		79 + 1.7		29 + .1	79 + 2.0		29 + 5.3		
30 + .2		80 + 1.8		30 + 0	80 + 2.1		30 + .1		
31 + .2		81 + 1.8		31 + 0	81 + 2.1				
32 + .2		82 + 1.8		32 + .1	82 + 2.1				Seq. 5
33 + .2		83 + 1.8		33 + .1	83 + 2.1				
34 + 2		84 + .8		34 + .2	84 + 2.1				
35 + .2		85 + .9		35 + .2	85 + 2.1				
36 - .1		86 + 1.1		36 + .2	86 + 2.1				
37 + 0		87 + 1.3		37 + .2	87 + 5.0				
38 + .1		88 + 1.5		38 + .2	88 + 1.5				
39 + .1		89 + 1.5		39 + .4	89 + 1.5				
40 + .1		90 + 1.4		40 - .1	90 + 1.5				
41 + .1		91 + 1.3		41 + .1	91 + 1.5				
42 + .1		92 + .1		42 + .1	92 + 5.2				
43 + .1		93 + .8		43 + .1	93 + .8				
44 + .1		94 + .9		44 + .1	94 + .8				
45 + .2		95 + .9		45 + .1	95 + .8				
46 + 0		96 + .9		46 + .1	96 + .9				
47 + 0		97 + .9		47 + .1	97 + 1.0				
48 + .1		98 + .2		48 + .1	98 + 1.2				
49 + .1		99 + .2		49 + .1	99 + 1.6				
50 + .1		100 + .1		50 + .2	100 + .2				

1923	.05	0°	.10	0	10.0	+5.0°	1.049	2035.4	.002167
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a) 1 + 0		51 + .2		b) 1 + 0		51 + .1		c) 1 + .2	
2 + 0		52 + 1.1		2 + .1		52 + 1.2		2 - 11.0	
3 + 0		53 + .1		3 + .1		53 + .2		3 - 18.2	
4 - 1.7		54 + 13.0		4 + .1		54 + 6.2		4 - 14.9	
5 - .8		55 + 9.4		5 + .1		55 + 6.7		5 - 6.8	
6 + .1		56 + 8.1		6 + .1		56 + 3.2		6 - 7.7	
7 + .2		57 + 8.2		7 + .1		57 + 5.4		7 + .8	
8 + .2		58 + 9.0		8 + .2		58 + 7.5		8 - 24.3	
9 + .2		59 + 6.8		9 + .7		59 + 7.1		9 + 37.5	
10 + 3.5		60 + 7.3		10 + .8		60 + 7.2		10 + 42.0	
11 + 0		61 + 8.1		11 + 6.3		61 + 7.5		11 + 4.8	
12 + 0		62 + 7.0		12 + 0		62 + 8.6		12 + 8.8	
13 + 0		63 + 7.3		13 + .1		63 + 9.0		13 + 10.0	
14 + 0		64 + 8.0		14 + 9.8		64 + 1.9		14 + 6.4	
15 + 0		65 + 6.9		15 + .1		65 + 4.9		15 + 6.3	
16 + 0		66 + 5.5		16 + 0		66 + 13.5		16 + 2.3	
17 + 0		67 + 6.7		17 + .2		67 + 16.5		17 + 10.5	
18 + 0		68 + 8.7		18 + .2		68 + 12.4		18 + 27.5	
19 + 0		69 + 8.9		19 + .2		69 + 7.0		19 + 37.7	
20 + 0		70 + 3.8		20 + .2		70 + 4.6		20 + .4	
21 + 0		71 + 5.5		21 + .2		71 + 5.0		21 + 1.6	
22 + 0		72 + 7.8		22 + .2		72 + 8.1		22 + .5	
23 + 0		73 + 8.5		23 + .3		73 + 7.2		23 + .2	
24 + 0		74 + 1.2		24 + .0		74 + .2		24 + .2	
25 + 0		75 + 5.2		25 + 0		75 + .7		25 + 2.3	
26 + .1		76 + 8.4		26 + .2		76 + .0		26 + 1.0	
27 + .1		77 + 9.3		27 + .6		77 + 7.7		27 + 1.3	
28 + .1		78 + 4.0		28 + .6		78 + 27.8		28 + 7.0	
29 + .2		79 + 6.5		29 + .1		79 + 22.3		29 + 16.9	
30 + .2		80 + 10.2		30 + .1		80 + 9.1		30 + .1	
31 + .2		81 + 10.4		31 + 0		81 + 7.3			
32 + .8		82 + 10.0		32 + 0		82 + 6.5		Seq. 5	
33 + .8		83 + 22.4		33 + 0		83 + 9.1			
34 + .1		84 + 2.4		34 + 0		84 + 8.7			
35 + .1		85 + 6.3		35 + 0		85 + 6.3			
36 + .1		86 + 7.7		36 + 0		86 + 9.0			
37 + 1		87 + 9.2		37 + 0		87 + 5.5			
38 + .1		88 + .3		38 + 0		88 + 7.5			
39 + .7		89 + 19.0		39 + 0		89 + 6.3			
40 + .1		90 + 7.8		40 + 0		90 + 7.6			
41 + .1		91 + 6.0		41 + 0		91 + 8.3			
42 + .1		92 + .1		42 + 0		92 + 8.5			
43 + .1		93 + 9.6		43 + 0		93 + 5.0			
44 + .1		94 + 8.7		44 + 0		94 + 7.0			
45 + .1		95 + 8.9		45 + 0		95 + 7.7			
46 + .1		96 + 9.0		46 + 0		96 + 8.1			
47 + .1		97 + 6.0		47 + 0		97 + 8.2			
48 + .1		98 + .1		48 + 0		98 + 8.3			
49 + .1		99 + .1		49 + 0		99 + 9.0			
50 + .1		100 + .1		50 + 0		100 + .1			

1924	.05	0°	.10	0	10.0	+2.5°	1.049	2035.4	.002167
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a) 1 + 0		51 + .1		b) 1 - .1		51 + .1		c) 1 + .1	
2 - .1		52 + 1.5		2 + 0		52 + 1.0		2 - 6.0	
3 - .1		53 + .3		3 + 0		53 + .1		3 - 13.7	
4 - 1.4		54 + 13.3		4 + 0		54 + 7.6		4 - 11.5	
5 + 0		55 + 11.8		5 + .1		55 + 8.4		5 - 3.8	
6 + 0		56 + 10.0		6 + .2		56 + 5.4		6 - 9.2	
7 + 0		57 + 9.7		7 + .2		57 + 7.3		7 + 2.0	
8 + 0		58 + 10.5		8 + .2		58 + 9.7		8 + 19.9	
9 + 0		59 + 9.8		9 + .5		59 + 9.4		9 + 34.1	
10 + 1.6		60 + 9.8		10 + .6		60 + 9.4		10 + 41.0	
11 - .1		61 + 9.9		11 + 8.3		61 + 9.4		11 - 1.6	
12 - .1		62 + 10.0		12 + .1		62 + 10.2		12 - 6.3	
13 - .1		63 + 10.0		13 + .2		63 + 10.4		13 - 7.6	
14 - .1		64 + 10.1		14 + 8.1		64 + 1.0		14 + 4.8	
15 - .1		65 + 10.2		15 + .1		65 + 6.2		15 + 7.9	
16 - .1		66 + 8.7		16 + 0		66 + 12.8		16 + 1.1	
17 - .1		67 + 9.2		17 + .1		67 + 13.7		17 + 11.3	
18 - .1		68 + 10.2		18 + .2		68 + 11.2		18 + 29.5	
19 - .1		69 + 10.4		19 + .3		69 + 8.3		19 + 40.9	
20 - .1		71 + 6.6		20 + 0		70 + 7.5		20 + .2	
21 - .1		71 + 8.0		21 + 0		71 + 8.2		21 + 2.5	
22 - .1		72 + 9.2		22 + 0		72 + 8.5		22 + .4	
23 - .1		73 + 9.3		23 + .1		73 + 9.1		23 + .1	
24 + .1		74 + 6.3		24 + 1.0		74 + .4		24 + .2	
25 - .1		75 + 8.2		25 + .2		75 + .5		25 + 5.0	
26 - .1		76 + 9.6		26 + .4		76 + 5.0		26 + .5	
27 - .1		77 + 10.4		27 + .4		77 + 21.2		27 + 1.8	
28 + .1		78 + 7.6		28 + .4		78 + 20.0		28 + 11.1	
29 + .1		79 + 9.8		29 + .4		79 + 13.5		29 + 26.2	
30 + .1		80 + 11.0		30 + .1		80 + 8.8		30 + .1	
31 + 0		81 + 11.4		31 + .1		81 + 9.6			
32 + 0		82 + 11.4		32 + .1		82 + 10.3		Seq. 5	
33 + 0		83 + 20.0		33 + .1		83 + 10.5			
34 + 0		84 + 3.3		34 + .1		84 + 9.9			
35 + 0		85 + 8.7		35 + .1		85 + 9.9			
36 + 0		86 + 9.4		36 + .1		86 + 10.0			
37 + 0		87 + 10.5		37 + .2		87 + 8.2			
38 + 0		88 + .8		38 + .2		88 + 9.2			
39 + .6		89 + 22.9		39 + .2		89 + 9.0			
40 + 0		90 + 7.7		40 + .2		90 + 9.1			
41 + 0		91 + 8.6		41 + .1		91 + 9.4			
42 + 0		92 + .3		42 + .1		92 + 10.2			
43 + 0		93 + 10.0		43 + .1		93 + 7.4			
44 + 0		94 + 10.1		44 + .1		94 + 8.2			
45 + 0		95 + 10.1		45 + .1		95 + 8.7			
46 + 0		96 + 10.1		46 + .1		96 + 9.1			
47 + 0		97 + 6.2		47 + .1		97 + 9.3			
48 + 0		98 + .1		48 + .1		98 + 9.5			
49 + 0		99 + .1		49 + .1		99 + 9.8			
50 + 0		100 + .1		50 + .1		100 + .1			

1925 .05 0° .10 0 10.0 0° 1.049 2035.4 .002167

a) 1 - .1	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 - .1	52 + 1.1	2 + 0	52 + 1.0	2 + .1
3 - .9	53 + .2	3 + .3	53 + .1	3 + 6.9
4 - .9	54 + 12.8	4 + .2	54 + 5.0	4 + 6.1
5 - .9	55 + 12.3	5 + .1	55 + 10.0	5 + .2
6 + 0	56 + 11.4	6 + .1	56 + 8.5	6 + 9.0
7 + 0	57 + 10.4	7 + .1	57 + 13.1	7 + 1.7
8 + 0	58 + 10.9	8 + .1	58 + 12.3	8 + 13.4
9 + 0	59 + 10.7	9 + .1	59 + 10.0	9 + 30.4
10 + .8	60 + 11.1	10 + .1	60 + 10.0	10 + 31.6
11 + 0	61 + 11.0	11 + 4.8	61 + 10.2	11 + .4
12 + 0	62 + 11.0	12 + 0	62 + 11.3	12 + 5.2
13 - .1	63 + 11.4	13 + .1	63 + 11.9	13 + 6.8
14 - .1	64 + 11.7	14 + 4.9	64 + 3.1	14 + 3.2
15 - .1	65 + 11.8	15 + 0	65 + 8.3	15 + 8.8
16 - .1	66 + 10.8	16 + .1	66 + 15.2	16 + .4
17 - .1	67 + 10.8	17 + .1	67 + 14.6	17 + 12.2
18 - .7	68 + 11.4	18 + .1	68 + 11.3	18 + 31.1
19 + 0	69 + 11.6	19 + .2	69 + 9.9	19 + 43.0
20 + 0	70 + 9.2	20 + .2	70 + 9.6	20 + .1
21 + 0	71 + 9.9	21 + .2	71 + 9.6	21 + 1.5
22 + 0	72 + 10.5	22 + .2	72 + 9.7	22 + 7.1
23 + 0	73 + 10.8	23 + .2	73 + 10.1	23 + 6.7
24 + 0	74 + 9.6	24 + 4.6	74 + 2.0	24 + 1.8
25 - .1	75 + 9.7	25 + 0	75 + 6.3	25 + 6.5
26 - .1	76 + 10.3	26 + 0	76 + 13.2	26 + .2
27 - .1	77 + 10.3	27 + 0	77 + 14.0	27 + 8.6
28 + 0	78 + 10.6	28 + .2	78 + 11.1	28 + 21.5
29 - .1	79 + 10.9	29 + .2	79 + 10.9	29 + 33.4
30 - .1	80 + 11.4	30 + .2	80 + 10.8	30 + .1
31 + 0	81 + 11.5	31 + .2	81 + 10.9	
32 - .6	82 + 11.6	32 + .2	82 + 11.0	Seq. 5
33 + 0	83 + 14.1	33 + .2	83 + 11.3	
34 + 0	84 + 4.0	34 + .2	84 + 11.4	
35 + 0	85 + 10.5	35 + .2	85 + 11.4	
36 + 0	86 + 10.9	36 + .1	86 + 11.0	
37 + 0	87 + 11.3	37 + 0	87 + 14.5	
38 + 0	88 + 3.7	38 + .2	88 + 10.7	
39 - .8	89 + 14.2	39 + .2	89 + 9.9	
40 + 0	90 + 9.1	40 + 0	90 + 10.5	
41 + 0	91 + 9.9	41 + 0	91 + 10.7	
42 + 0	92 + .2	42 + 0	92 + 14.4	
43 + 0	93 + 10.7	43 + 0	93 + 9.3	
44 + 0	94 + 10.9	44 + 0	94 + 9.8	
45 - .1	95 + 10.8	45 + 0	95 + 10.1	
46 - .1	96 + 10.8	46 + 0	96 + 10.4	
47 - .1	97 + 6.8	47 + 0	97 + 10.6	
48 - .1	98 + .1	48 + 0	98 + 10.7	
49 - .1	99 + .1	49 + 0	99 + 11.0	
50 - .1	100 + .1	50 + 0	100 + .2	

	1926	.05	00	.10	0	10.0	-2.5°	1.048	9035.4	.002167	
a) 1 + 0	51	+	.1		b) 1 + 0		51	-.2	c) 1	.1	
2 + 0	52	+	1.0		2 + 0		52	1.4	.4	2	4.1
3 + 0	53	+	.1		3 + 0		53	-.2	3	.5	
4 + 1.6	54	+	9.3		4 + 0		54	2.0	4	-.2	
5 + 0	55	+	11.5		5 + 0		55	3.0	5	1.7	
6 + 0	56	+	11.8		6 + 0		56	3.1	6	6.2	
7 + 0	57	+	10.5		7 + 0		57	15.1	7	1.0	
8 + 0	58	+	8.1		8 + 0		58	21.1	8	5.1	
9 + 0	59	+	9.0		9 + 0		59	14.4	9	18.9	
10 + .3	60	+	10.5		10 + 0		60	6.4	10	33.6	
11 + .8	61	+	10.8		11 + 0		61	9.5	11	3.0	
12 + .8	62	+	7.9		12 + 0		62	10.7	12	8.8	
13 + 0	63	+	9.7		13 + 0		63	11.0	13	10.2	
14 + 0	64	+	10.8		14 + 1.1		64	2.0	14	5.4	
15 + 0	65	+	11.0		15 + 1.1		65	8.1	15	8.1	
16 + 0	66	+	8.2		16 + 0		66	17.1	16	1.4	
17 + 0	67	+	8.1		17 + 0		67	17.0	17	15.0	
18 + .4	68	+	10.0		18 + .1		68	13.1	18	34.4	
19 + .4	69	+	10.3		19 + .1		69	9.7	19	44.9	
20 + .5	70	+	8.8		20 + .1		70	7.7	20	-.3	
21 + .1	71	+	8.8		21 + .1		71	8.0	21	7.2	
22 + .1	72	+	8.8		22 + .1		72	8.3	22	13.5	
23 + .1	73	+	9.1		23 + .1		73	8.9	23	12.0	
24 + .1	74	+	9.3		24 + 0		74	4.4	24	4.8	
25 + .1	75	+	8.8		25 + .1		75	5.9	25	8.2	
26 + .1	76	+	8.9		26 + .1		76	7.4	26	-.4	
27 + .1	77	+	10.0		27 + .1		77	6.3	27	15.1	
28 + .1	78	+	11.1		28 + .1		78	10.1	28	25.4	
29 + .1	79	+	10.9		29 + .1		79	10.5	29	35.5	
30 + .1	80	+	10.4		30 + .1		80	10.7	30	.2	
31 + .1	81	+	10.5		31 + .1		81	10.7			
32 + .3	82	+	11.0		32 + .1		82	10.7		Seq. 5	
33 + .3	83	+	10.5		33 + .1		83	10.8			
34 + .4	84	+	3.1		34 + .1		84	11.0			
35 + .4	85	+	9.3		35 + .1		85	11.2			
36 + 0	86	+	9.4		36 + .1		86	11.3			
37 + 0	87	+	10.4		37 + .1		87	25.9			
38 + 0	88	+	7.7		38 + .2		88	11.6			
39 + 0	89	+	.6		39 + .5		89	9.3			
40 + 0	90	+	8.7		40 + 0		90	10.4			
41 + 0	91	+	9.0		41 + 0		91	10.1			
42 + 0	92	+	.1		42 + 0		92	22.7			
43 + 0	93	+	9.6		43 + 0		93	8.3			
44 + 0	94	+	9.5		44 + 0		94	9.1			
45 + 0	95	+	9.0		45 + 0		95	10.1			
46 + 0	96	+	9.0		46 + 0		96	10.0			
47 + 0	97	+	6.0		47 + 0		97	10.5			
48 + 0	98	+	.1		48 + 0		98	10.5			
49 + 0	99	+	.1		49 + 0		99	10.5			
50 + 0	100	+	.1		50 + 0		100	+.1			

1927 .05 0° .10 0 10.0 -5.0° 1.048 2035.4 .002167

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 1.5	2 + 0	52 + 1.7	2 + 3.1
3 + 0	53 + .2	3 + 0	53 + .3	3 + 1.0
4 - 1.9	54 + 7.1	4 + 0	54 + 2.5	4 + 1.2
5 + .1	55 + 11.3	5 + 0	55 + 1.8	5 + 1.3
6 + .1	56 + 11.9	6 + 0	56 + .5	6 + 4.4
7 + .1	57 + 10.9	7 + 0	57 + 1.1	7 + 2.3
8 + .1	58 + 5.7	8 + 0	58 + 27.1	8 + 3.9
9 + .1	59 + 8.6	9 + 0	59 + 26.6	9 + 13.7
10 + .4	60 + 10.9	10 + 0	60 + 14.0	10 + 26.0
11 - 1.2	61 + 11.2	11 + 0	61 + 6.8	11 - 8.5
12 + .1	62 + 5.2	12 + 0	62 + 9.5	12 - 13.4
13 + .1	63 + 8.4	13 + 0	63 + 10.4	13 - 14.4
14 + .1	64 + 10.9	14 + .2	64 + 2.6	14 - 7.6
15 + .1	65 + 11.0	15 + 0	65 + 6.6	15 + 5.1
16 + .1	66 + 6.5	16 + 0	66 + 16.4	16 - 2.6
17 + .1	67 + 7.0	17 + 0	67 + 17.9	17 + 13.7
18 - .3	68 + 9.6	18 + 0	68 + 12.8	18 + 33.2
19 - .3	69 + 10.1	19 + 0	69 + 8.0	19 + 43.7
20 + .1	70 + 6.7	20 + 0	70 + 5.3	20 + .1
21 + .1	71 + 7.1	21 + .1	71 + 6.2	21 - 13.1
22 + .1	72 + 8.4	22 + .1	72 + 6.5	22 - 20.0
23 + .1	73 + 9.6	23 + .1	73 + 7.5	23 - 17.9
24 + .1	74 + 9.7	24 + .2	74 + 4.1	24 - 7.9
25 + .1	75 + 7.4	25 + .3	75 + 5.0	25 + 7.8
26 + .1	76 + 8.3	26 + .3	76 + 5.8	26 + .1
27 + .1	77 + 9.4	27 + .3	77 + 7.3	27 + 20.9
28 + .1	78 + 12.0	28 + .3	78 + 8.0	28 + 28.5
29 + .1	79 + 9.5	29 + .3	79 + 8.7	29 + 37.6
30 + .1	80 + 9.0	30 + .5	80 + 8.9	30 + .1
31 + .1	81 + 9.8	31 + 0	81 + 8.9	
32 + .1	82 + 10.7	32 + 0	82 + 9.0	Seq. 5
33 + .1	83 + 8.8	33 + 0	83 + 9.1	
34 + .1	84 + 2.7	34 + 0	84 + 10.3	
35 + .1	85 + 7.8	35 + 0	85 + 10.8	
36 + .1	86 + 8.8	36 + 0	86 + 10.7	
37 + .1	87 + 10.2	37 + .1	87 + 29.2	
38 + .1	88 + 8.4	38 + 0	88 + 9.1	
39 + .1	89 + 6.4	39 + 1.4	89 + 9.0	
40 + .1	90 + 7.0	40 - .1	90 + 10.1	
41 + .1	91 + 7.8	41 - .1	91 + 10.7	
42 + .1	92 + .1	42 - .1	92 + 30.1	
43 + .1	93 + 9.7	43 - .1	93 + 7.1	
44 + .1	94 + 8.7	44 - .1	94 + 8.0	
45 + .1	95 + 8.9	45 - .1	95 + 9.5	
46 + .1	96 + 9.6	46 - .1	96 + 10.3	
47 + .1	97 + 6.5	47 - .1	97 + 9.0	
48 + .1	98 + .1	48 - .1	98 + 9.6	
49 + .1	99 + .1	49 - .1	99 + 10.1	
50 + .1	100 + .1	50 - .1	100 + .1	

1952	.05	0°	.05	0	10.0	+2.5°	1.010	2046.0	.002264
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a) 1 - .1	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 - .1	52 + 1.4	2 + .1	52 + 1.0	2 + 1.9
3 - .1	53 + .3	3 + .1	53 + .1	3 + 2.0
4 - .1	54 + 7.6	4 + .1	54 + 3.4	4 + 2.0
5 - .1	55 + 6.5	5 + .1	55 + 4.7	5 + 2.0
6 - .1	56 + 4.9	6 + .1	56 + 2.4	6 + 3.5
7 - .1	57 + 4.0	7 + 0	57 + 3.2	7 + 3.4
8 - .1	58 + 5.5	8 + 0	58 + 5.5	8 + 4.4
9 - .1	59 + 4.9	9 + .1	59 + 4.8	9 + 9.5
10 +12.4	60 + 4.9	10 + .1	60 + 4.4	10 +12.1
11 - .1	61 + 4.9	11 + 1.7	61 + 4.5	11 + 2.4
12 - .1	62 + 5.4	12 + 0	62 + 5.6	12 + 1.8
13 - .1	63 + 5.6	13 + 0	63 + 5.8	13 + 1.8
14 - .1	64 + 5.5	14 + 1.0	64 + .7	14 + 1.9
15 - .1	65 + 5.0	15 + 0	65 + .7	15 + 3.8
16 - .1	66 + 4.9	16 + 0	66 + 4.2	16 + 3.9
17 - .1	67 + 4.9	17 + .1	67 + 5.4	17 + 5.8
18 - .1	68 + 5.0	18 + .1	68 + 5.4	18 + .7
19 - .1	69 + 4.9	19 + .2	69 + 4.2	19 +11.0
20 - .1	70 + 3.2	20 + .2	70 + 3.8	20 + .1
21 - .1	71 + 3.9	21 + .2	71 + 3.9	21 + 1.0
22 - .1	72 + 4.1	22 + .2	72 + 4.0	22 + 1.1
23 - .1	73 + 4.1	23 + .2	73 + 4.1	23 + 1.1
24 - .1	74 + 4.1	24 + .2	74 + .1	24 + 2.0
25 - .1	75 + 4.1	25 + .2	75 + .8	25 + 3.2
26 - .1	76 + 4.2	26 + .3	76 + .8	26 + 1.3
27 - .1	77 + 4.5	27 + .1	77 + 5.6	27 + 2.3
28 - .1	78 + 4.5	28 + .1	78 + 6.4	28 + 5.7
29 - .1	79 + 5.0	29 + .1	79 + 5.0	29 + 7.2
30 - .1	80 + 5.1	30 + .2	80 + 4.8	30 + .1
31 - .1	81 + 5.1	31 + .2	81 + 4.9	
32 - .8	82 + 5.1	32 + 0	82 + 5.1	Seq. 5
33 + 0	83 + 7.2	33 + .1	83 + 5.1	
34 + 0	84 + 1.8	34 + .2	84 + 4.7	
35 + 0	85 + 4.5	35 + .2	85 + 4.7	
36 + 0	86 + 4.6	36 + .1	86 + 4.7	
37 + 0	87 + 4.9	37 + .2	87 + 4.7	
38 - .1	88 + .1	38 + .1	88 + 4.7	
39 - .8	89 + 5.9	39 + .2	89 + 4.5	
40 - .1	90 + 4.3	40 + .2	90 + 4.3	
41 - .1	91 + 4.4	41 + .2	91 + 4.3	
42 - .1	92 + .2	42 + .2	92 + 4.7	
43 - .1	93 + 4.4	43 + .2	93 + 3.9	
44 - .1	94 + 4.1	44 + .2	94 + 3.9	
45 - .1	95 + 4.0	45 + .2	95 + 3.9	
46 - .1	96 + 3.9	46 + .2	96 + 3.9	
47 - .1	97 + 2.8	47 + .2	97 + 3.9	
48 - .1	98 + .1	48 + .2	98 + 4.0	
49 - .1	99 + .1	49 + .2	99 + 4.4	
50 - .1	100 + .1	50 + .2	100 + .1	

1953 .05 0° .05 0 10.0 0° 1.011 2046.0 .002264

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 1.0	2 + 0	52 + 1.1	2 + 1.9
3 + 0	53 + .2	3 + 0	53 + .2	3 + .4
4 - 1.1	54 + 7.3	4 + 0	54 + 2.1	4 + .6
5 + 0	55 + 6.9	5 + 0	55 + 2.5	5 + 1.2
6 + 0	56 + 5.0	6 + 0	56 + 2.2	6 + 3.2
7 + 0	57 + 4.6	7 + 0	57 + 3.9	7 + 2.9
8 + 0	58 + 5.5	8 + 0	58 + 5.4	8 + 4.2
9 + 0	59 + 5.0	9 + .1	59 + 5.1	9 + 8.4
10 + 4.7	60 + 5.0	10 + .1	60 + 4.9	10 + 10.3
11 - .9	61 + 5.2	11 + .1	61 + 4.8	11 + 2.4
12 + 0	62 + 5.4	12 + .1	62 + 5.1	12 + .6
13 + 0	63 + 5.6	13 + .1	63 + 5.3	13 + .8
14 + 0	64 + 5.7	14 + .1	64 + .2	14 + 1.2
15 + 0	65 + 5.3	15 + .1	65 + .4	15 + 3.2
16 + 0	66 + 5.2	16 + 0	66 + 4.3	16 + 2.5
17 + 0	67 + 5.2	17 + .1	67 + 5.1	17 + 3.7
18 - 1.2	68 + 5.2	18 + .1	68 + 5.0	18 + 8.9
19 + 0	69 + 4.9	19 + .2	69 + 4.4	19 + 11.7
20 + 0	70 + 3.5	20 + .2	70 + 3.8	20 + .1
21 + 0	71 + 4.0	21 + .2	71 + 3.9	21 + .6
22 + 0	72 + 4.1	22 + .2	72 + 4.0	22 + .1
23 + 0	73 + 4.1	23 + .2	73 + 4.1	23 + .1
24 + 0	74 + 4.2	24 + .2	74 + .1	24 + .4
25 - .7	75 + 4.2	25 + .2	75 + .1	25 + 2.3
26 + 0	76 + 4.1	26 + .3	76 + 3.0	26 + 1.2
27 + 0	77 + 4.4	27 + .3	77 + 4.8	27 + 2.1
28 + 0	78 + 4.6	28 + .3	78 + 5.0	28 + 4.5
29 + 0	79 + 4.8	29 + .3	79 + 5.0	29 + 7.0
30 + 0	80 + 5.0	30 + .3	80 + 5.0	30 + .1
31 + 0	81 + 5.0	31 + .3	81 + 5.0	
32 - .9	82 + 5.0	32 + .3	82 + 5.1	Seq. 5
33 + 0	83 + 5.1	33 + .3	83 + 5.0	
34 + 0	84 + 1.4	34 + .3	84 + 5.1	
35 + 0	85 + 4.7	35 + .3	85 + 5.1	
36 + 0	86 + 4.6	36 + .3	86 + 5.1	
37 + 0	87 + 4.8	37 + .3	87 + 5.0	
38 + 0	88 + .1	38 + .3	88 + 5.2	
39 - 1.2	89 + 4.9	39 + .3	89 + 4.8	
40 + 0	90 + 3.8	40 + .3	90 + 4.6	
41 + 0	91 + 4.0	41 + .1	91 + 4.4	
42 + 0	92 + .1	42 + .1	92 + 5.0	
43 + 0	93 + 4.0	43 + .1	93 + 4.6	
44 + 0	94 + 4.0	44 + .1	94 + 4.6	
45 + 0	95 + 3.8	45 + .1	95 + 4.0	
46 + 0	96 + 3.8	46 + .1	96 + 4.0	
47 + 0	97 + 3.2	47 + .1	97 + 4.0	
48 + 0	98 + .1	48 + .1	98 + 4.2	
49 + 0	99 + .1	49 + .1	99 + 4.4	
50 + 0	100 + .1	50 + .1	100 + .1	

1954 .05 0° .05 0 10.0 -2.5° 1.011 2046.0 .002264

a) 1 + 0	1 + .2	b) 1 + 0	1 + .1	c) 1 + .1
2 + 0	2 + 1.0	2 + 0	2 + 1.1	2 + 2.6
3 + 0	3 + .2	3 + 0	3 + .2	3 + 1.9
4 - 2.1	4 - 7.1	4 + 0	4 + 2.2	4 + 1.9
5 + 0	5 + 7.0	5 + 0	5 + 1.5	5 + 2.0
6 + 0	6 + 5.7	6 + 0	6 + .1	6 + 3.1
7 + 0	7 + 4.1	7 + 0	7 + 1.1	7 + 3.5
8 + 0	8 + 5.2	8 + 0	8 + 7.7	8 + 4.3
9 + 0	9 + 5.2	9 + 0	9 + 4.9	9 + 8.8
10 + 1.4	10 + 5.2	10 + 0	10 + 4.9	10 + 10.1
11 - 1.4	11 - 5.2	11 - .8	11 - 4.9	11 - 2.5
12 + 0	12 + 5.3	12 + .1	12 + 5.4	12 + 2.0
13 + 0	13 + 5.7	13 + .1	13 + 5.8	13 + 2.0
14 + 0	14 + 5.8	14 + .1	14 + .5	14 + 2.0
15 + 0	15 + 5.4	15 + .1	15 + 1.0	15 + 3.8
16 + 0	16 + 5.2	16 + .1	16 + 5.5	16 + 3.4
17 + 0	17 + 5.2	17 + .1	17 + 6.3	17 + 5.6
18 - 2.0	18 - 5.2	18 - .1	18 - 5.7	18 - 9.8
19 + 0	19 + 5.0	19 + .1	19 + 3.8	19 + 11.0
20 + 0	20 + 4.3	20 + .1	20 + 3.7	20 + .1
21 + 0	21 + 4.3	21 + .1	21 + 3.8	21 + .9
22 + 0	22 + 4.3	22 + .1	22 + 3.9	22 + .2
23 + 0	23 + 4.3	23 + .1	23 + 4.0	23 + .8
24 + 0	24 + 4.3	24 + .3	24 + .3	24 + .8
25 - .7	25 - 4.3	25 + .1	25 + 1.6	25 + 3.1
26 + .2	26 + 4.3	26 + .1	26 + 3.0	26 + 1.2
27 + .1	27 + 4.5	27 + .1	27 + 4.1	27 + 2.1
28 + .1	28 + 4.9	28 + .1	28 + 4.8	28 + 5.2
29 + .1	29 + 5.1	29 + .1	29 + 5.0	29 + 9.3
30 + .1	30 + 5.3	30 + .1	30 + 5.2	30 + .1
31 + .1	31 + 5.3	31 + .1	31 + 5.2	
32 + .7	32 + 5.3	32 + .1	32 + 5.2	Seq. 5
33 + .1	33 + 5.3	33 + .1	33 + 5.2	
34 + .1	34 + 1.7	34 + .1	34 + 5.2	
35 + .1	35 + 4.4	35 + .1	35 + 4.6	
36 + .1	36 + 4.6	36 + .1	36 + 5.2	
37 + .1	37 + 4.8	37 + .1	37 + 7.4	
38 + .1	38 + 2.1	38 + .1	38 + 4.8	
39 + .6	39 + 4.0	39 + .1	39 + 4.9	
40 + .1	40 + 4.2	40 + .1	40 + 4.6	
41 + 0	41 + 4.3	41 + .1	41 + 4.7	
42 + 0	42 + .2	42 + .1	42 + 5.8	
43 + 0	43 + 4.0	43 + .1	43 + 4.0	
44 + 0	44 + 4.1	44 + .1	44 + 4.1	
45 + 0	45 + 4.1	45 + .1	45 + 4.0	
46 + 0	46 + 4.1	46 + .1	46 + 4.0	
47 + 0	47 + 3.2	47 + .1	47 + 4.0	
48 + 0	48 + .1	48 + .1	48 + 4.2	
49 + 0	49 + .1	49 + .1	49 + 4.3	
50 + 0	100 + .1	100 + .1	100 + .1	

1964	.05	0°	.05	0	10.0	+2.5°	1.049	2042.4	.002199
a) 1 - .1		51 + .2		b) 1 + 0		51 + .2		c) 1 + .1	
2 + .1		52 - .9		2 + 0		52 + 1.0		2 + 10.3	
3 + .1		53 + .1		3 + 0		53 + .3		3 + 5.0	
4 - 3.4		54 + 23.4		4 + 0		54 + 7.0		4 + 5.7	
5 - .9		55 + 22.2		5 + 0		55 + 13.8		5 + 10.2	
6 + 0		56 - 20.4		6 + 0		56 + 10.5		6 + 21.1	
7 + 0		57 + 20.6		7 + 0		57 + 17.7		7 + 11.9	
8 + 0		58 + 21.3		8 + 0		58 + 21.0		8 + 23.9	
9 + 0		59 + 20.6		9 + 0		59 + 21.2		9 + 40.7	
10 + 18.4		60 + 20.6		10 + 0		60 + 21.0		10 + 50.6	
11 - 3.3		61 + 20.0		11 - 7.5		61 + 21.0		11 + 9.8	
12 - .8		62 + 20.6		12 - .1		62 + 21.9		12 + 4.9	
13 + 0		63 + 20.7		13 - .1		63 + 21.9		13 + 3.6	
14 + 0		64 + 20.9		14 - 3.9		64 - .2		14 + 7.1	
15 + 0		65 - 21.0		15 - .1		65 - 2.7		15 - 20.4	
16 + 0		66 + 19.5		16 - .1		66 + 18.2		16 - 13.0	
17 + 0		67 + 20.2		17 - .1		67 + 23.9		17 + 27.3	
18 - 2.8		68 + 20.7		18 - .1		68 + 21.4		18 + 42.3	
19 - .4		69 + 20.9		19 - .1		69 + 19.5		19 - 49.3	
20 + 0		70 + 17.6		20 - .1		70 + 19.5		20 + .1	
21 + 0		71 + 19.5		21 - .1		71 + 19.7		21 + 12.9	
22 + 0		72 + 20.2		22 - .1		72 + 19.9		22 + 9.7	
23 - 0		73 + 20.4		23 - .1		73 + 20.4		23 + 9.4	
24 + 0		74 + 18.3		24 - 1.3		74 - .5		24 + 11.3	
25 - 3.6		75 + 20.1		25 - 0		75 - 2.8		25 + 17.7	
26 - .5		76 + 20.8		26 - 0		76 - 3.2		26 + 12.1	
27 + 0		77 + 21.1		27 - .1		77 + 26.1		27 + 14.0	
28 + 0		78 + 19.3		28 + .1		78 + 28.2		28 + 26.9	
29 + .2		79 + 21.9		29 + .1		79 + 22.3		29 + 37.2	
30 + .3		80 + 22.0		30 + .1		80 + 21.0		30 + .1	
31 - .3		81 + 21.2		31 + 0		81 + 21.6			
32 - 4.7		82 + 21.4		32 + 0		82 + 21.9		Seq. 5	
33 - .7		83 + 32.0		33 + 0		83 + 22.0			
34 + .1		84 + 8.3		34 + 0		84 + 20.5			
35 + .2		85 + 20.9		35 + 0		85 + 20.9			
36 + .2		86 + 20.9		36 + 0		86 + 21.0			
37 + .3		87 + 21.0		37 + 0		87 + 20.0			
38 + .3		88 + .9		38 + 0		88 + 20.7			
39 - 6.0		89 + 27.8		39 + 0		89 + 20.7			
40 + 0		90 + 19.7		40 + 0		90 + 20.7			
41 + 0		91 + 20.5		41 - .1		91 + 20.7			
42 + 0		92 + .8		42 - .1		92 + 21.3			
43 + 0		93 + 21.4		43 - .1		93 + 19.0			
44 + 0		94 + 20.4		44 - .1		94 + 19.6			
45 + 0		95 + 20.6		45 - .1		95 + 19.8			
46 + .1		96 + 20.4		46 - .1		96 + 20.1			
47 + 0		97 + 14.8		47 - .1		97 + 20.0			
48 + .1		98 + .1		48 - .1		98 + 20.6			
49 + .1		99 + .1		49 - .1		99 + 20.9			
50 + .1		100 + .2		50 - .1		100 + .2			

1965	.05	0°	.05	0	10.0	0°	1.049	2042.4	.002199
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a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + .9	2 + 0	52 + .6	2 + 11.0
3 - .1	53 + .2	3 + 0	53 + .1	3 + 7.4
4 - 5.2	54 + 24.3	4 + 0	54 + 1.1	4 + 7.0
5 - .5	55 + 24.4	5 + .1	55 + 4.4	5 + 11.5
6 + 0	56 + 23.0	6 + .1	56 + 6.0	6 + 20.2
7 + 0	57 + 22.7	7 + 0	57 + 22.2	7 + 13.9
8 + 0	58 + 22.9	8 + 0	58 + 22.9	8 + 24.2
9 + 0	59 + 23.0	9 + .1	59 + 22.6	9 + 38.6
10 + 5.4	60 + 23.2	10 + .1	60 + 22.6	10 + 46.5
11 - 4.9	61 + 23.2	11 + .1	61 + 22.0	11 + 12.0
12 - .7	62 + 23.2	12 + .1	62 + 23.0	12 + 8.4
13 + 0	63 + 23.6	13 + .1	63 + 23.4	13 + 6.5
14 + 0	64 + 23.8	14 + .1	64 + .5	14 + 9.6
15 + 0	65 + 23.8	15 + .1	65 + 3.2	15 + 19.8
16 + 0	66 + 22.7	16 + .1	66 + 20.0	16 + 12.7
17 + 0	67 + 22.7	17 + .1	67 + 24.3	17 + 23.2
18 - 5.4	68 + 23.1	18 + .1	68 + 22.0	18 + 39.9
19 - .9	69 + 23.3	19 + 0	69 + 21.7	19 + 50.1
20 + 0	70 + 20.6	20 + 0	70 + 21.7	20 + .1
21 + 0	71 + 21.5	21 + 0	71 + 21.7	21 + 11.7
22 + 0	72 + 22.0	22 + .1	72 + 21.7	22 + 7.4
23 + 0	73 + 22.3	23 + .1	73 + 21.9	23 + 7.3
24 + 0	74 + 21.1	24 + .1	74 + .2	24 + 10.4
25 - 4.3	75 + 21.5	25 + .1	75 + .5	25 + 19.3
26 - 1.0	76 + 22.0	26 + .1	76 + 15.5	26 + 12.2
27 - .4	77 + 22.7	27 + .1	77 + 24.3	27 + 18.0
28 - .4	78 + 22.9	28 + .1	78 + 22.0	28 + 30.0
29 - .4	79 + 22.8	29 + .1	79 + 22.0	29 + 39.7
30 + 0	80 + 3.1	30 + .1	80 + 22.1	30 + .2
31 + 0	81 + 23.0	31 + .1	81 + 22.4	
32 - 5.1	82 + 3.4	32 + .2	82 + 22.8	See 1. 5
33 - .7	83 + 24.6	33 + .2	83 + 22.9	
34 - .1	84 + 9.6	34 + .2	84 + 23.0	
35 + .1	85 + 22.5	35 + .2	85 + 23.0	
36 + .1	86 + 22.6	36 + .2	86 + 23.0	
37 + .1	87 + 23.0	37 + .2	87 + 24.8	
38 + .1	88 + 1	38 + .2	88 + 23.8	
39 - 4.5	89 + 24.8	39 + .2	89 + 21.8	
40 + 0	90 + 21.2	40 + .2	90 + 22.2	
41 + 0	91 + 21.9	41 + 0	91 + 22.0	
42 + 0	92 + 1.1	42 + 0	92 + 24.8	
43 + 0	93 + 22.7	43 + 0	93 + 21.4	
44 + 0	94 + 22.7	44 + 0	94 + 21.8	
45 + 0	95 + 22.6	45 + 0	95 + 22.0	
46 + 0	96 + 22.9	46 + 0	96 + 22.1	
47 + 0	97 + 16.3	47 + 0	97 + 22.3	
48 + 0	98 + .1	48 + 0	98 + 22.4	
49 + 0	99 + .2	49 + 0	99 + 22.5	
50 + 0	100 + .1	50 + 0	100 + .1	

1966	.05	0°	.05	0	10.0	-2.5°	1.048	2042.4	.002199
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a) 1 + 0		51 + .1		b) 1 - .1		51 + .1		c) 1 + .1	
2 + 0		52 + 1.0		2 - .1		52 + 1.1		2 + 13.0	
3 + 0		53 + .2		3 - .1		53 + .1		3 + 9.9	
4 - 6.5		54 + 21.9		4 - .1		54 + .8		4 + 10.1	
5 + .1		55 + 23.0		5 - .1		55 - .7		5 + 11.0	
6 + .1		56 + 22.6		6 - .1		56 - 2.5		6 + 18.7	
7 + .1		57 + 20.4		7 - .1		57 + 5.7		7 + 13.7	
8 + .1		58 + 20.2		8 - .1		58 + 30.2		8 + 20.9	
9 + .1		59 + 21.0		9 - .1		59 + 22.5		9 + 34.5	
10 + 1.4		60 + 21.6		10 - .1		60 + 20.8		10 + 44.2	
11 - 6.3		61 + 21.0		11 - 3.1		61 + 21.3		11 + 10.1	
12 + .1		62 + 20.6		12 - .1		62 + 22.4		12 + 4.5	
13 + .1		63 + 21.9		13 - .1		63 + 22.8		13 + 3.3	
14 + .1		64 + 22.1		14 - 3.0		64 + 1.0		14 + 8.0	
15 + .1		65 + 22.1		15 + 0		65 + 3.1		15 + 20.1	
16 + .1		66 + 18.9		16 - 0		66 + 22.0		16 + 14.0	
17 + .1		67 + 20.0		17 - 0		67 + 28.5		17 + 29.7	
18 - 5.9		68 + 20.8		18 + 0		68 + 22.5		18 + 44.1	
19 + .1		69 + 21.1		19 + 0		69 + 18.8		19 + 49.6	
20 + .1		70 + 18.8		20 + 0		70 + 18.8		20 + .2	
21 + .1		71 + 19.4		21 + 0		71 + 19.1		21 + 10.4	
22 + .1		72 + 19.8		22 + 0		72 + 19.5		22 + 5.0	
23 + .1		73 + 20.2		23 + 0		73 + 20.1		23 + 5.4	
24 + .1		74 + 20.4		24 + 3.2		74 + 4.4		24 + 9.6	
25 - 3.5		75 + 20.4		25 - .1		75 + 9.7		25 + 19.6	
26 + .1		76 + 20.3		26 + 0		76 + 15.5		26 + 10.7	
27 + .1		77 + 20.5		27 + 0		77 + 19.1		27 + 15.3	
28 + .1		78 + 21.7		28 + 0		78 + 20.3		28 + 31.2	
29 + .1		79 + 21.8		29 + 0		79 + 20.8		29 + 43.5	
30 + .1		80 + 21.8		30 + 0		80 + 21.0		30 + .2	
31 + .1		81 + 21.6		31 + 0		81 + 21.0			
32 - 2.6		82 + 21.6		32 + 0		82 + 21.1		Seq. 5	
33 + .1		83 + 21.6		33 + 0		83 + 21.1			
34 + .1		84 + 8.6		34 + 0		84 + 21.2			
35 + .1		85 + 20.1		35 + 0		85 + 1.4			
36 + .1		86 + 20.4		36 - 1.1		86 + 21.5			
37 + .1		87 + 21.0		37 + .3		87 + 34.9			
38 + 0		88 + 0.6		38 + 0		88 + 22.2			
39 - 2.9		89 + 19.1		39 + 0		89 + 20.4			
40 + .1		90 + 19.6		40 - .1		90 + 20.9			
41 + .1		91 + 20.0		41 - .1		91 + 21.0			
42 + .1		92 + 1.2		42 - .1		92 + 26.4			
43 + .1		93 + 20.5		43 - .1		93 + 19.9			
44 + .1		94 + 20.6		44 - .1		94 + 20.6			
45 + .1		95 + 20.6		45 - .1		95 + 20.7			
46 + .1		96 + 20.7		46 - .1		96 + 20.7			
47 + 0		97 + 15.1		47 - .1		97 + 20.8			
48 + .1		98 + .1		48 - .1		98 + 20.7			
49 + 0		99 + .2		49 - .1		99 + 20.8			
50 + 0		100 - .1		50 - .1		100 + .1			

	1985	.05	0°	.03	0	10.0	+2.5°	1.010	2038.9	.002119	
a)	1 + .1		51 + .2		b)	1 + 0		51 + .1		c)	1 + .1
2 + .1			52 + 1.8		2 + .1		52 + 1.3		2 + 5.7		
3 + .1			53 + .2		3 + .1		53 + .1		3 + 4.9		
4 - 1.4			54 + 9.4		4 + .1		54 + 3.6		4 + 4.9		
5 + .1			55 + 8.5		5 + .1		55 + 4.8		5 + 5.1		
6 + .1			56 + 6.8		6 + .1		56 + 3.2		6 + 5.7		
7 + .1			57 + 6.1		7 + .1		57 + 5.0		7 + 5.8		
8 + .1			58 + 7.3		8 + .1		58 + 7.2		8 + 6.0		
9 + .1			59 + 6.5		9 + .1		59 + 6.2		9 + 8.3		
10 + 11.4			60 + 6.7		10 + .1		60 + 6.4		10 + 10.3		
11 - .9			61 + 6.7		11 + 1.0		61 + 6.5		11 + 4.7		
12 + .1			62 + 7.0		12 - .1		62 + 7.4		12 + 4.4		
13 + .1			63 + 7.5		13 - .1		63 + 7.5		13 + 4.4		
14 + .1			64 + 7.6		14 - .1		64 + .4		14 + 4.5		
15 + .1			65 + 7.4		15 - .1		65 + .2		15 + 5.7		
16 + .1			66 + 7.4		16 - .1		66 + 2.9		16 + 5.8		
17 + .1			67 + 7.4		17 - .1		67 + 6.8		17 + 6.8		
18 - 1.0			68 + 7.4		18 - .1		68 + 6.9		18 + 10.5		
19 + .1			69 + 6.7		19 - .1		69 + 6.1		19 + 10.6		
20 + .1			70 + 5.5		20 - .1		70 + 5.0		20 + .1		
21 + .1			71 + 6.1		21 - .1		71 + 5.8		21 + 4.6		
22 + .1			72 + 6.2		22 - .1		72 + 5.9		22 + 2.9		
23 + .1			73 + 6.2		23 - .1		73 + 5.9		23 + 3.3		
24 + .1			74 + 6.3		24 - 1.3		74 + .1		24 + 4.1		
25 - 1.8			75 + 6.3		25 + 0		75 - .8		25 + 5.0		
26 + .1			76 + 6.2		26 + 0		76 - 2.6		26 + 4.4		
27 + .1			77 + 6.6		27 + 0		77 + .2		27 + 4.6		
28 + .2			78 + 6.7		28 + 0		78 + 7.8		28 + 6.9		
29 + .2			79 + 7.1		29 + 0		79 + 6.9		29 + 8.1		
30 + 2			80 + 7.1		30 + 0		80 + 7.0		30 + .1		
31 + .2			81 + 7.0		31 + 0		81 + 6.9				
32 - 2.2			82 + 7.0		32 + 0		82 + 7.0		Sq. 5		
33 + .1			83 + 8.6		33 + 0		83 + 6.7				
34 + .1			84 + 2.9		34 + 0		84 + 6.0				
35 + .1			85 + 6.4		35 + 0		85 + 6.0				
36 + .1			86 + 6.4		36 + 0		86 + 6.5				
37 + .1			87 + 6.9		37 + 0		87 + 6.5				
38 + .1			88 + .7		38 + 0		88 + 6.8				
39 - 2.1			89 + 7.5		39 + 0		89 + 6.5				
40 + .1			90 + 6.6		40 + 0		90 + 5.9				
41 + .1			91 + 6.3		41 + 0		91 + 6.0				
42 + .1			92 + .6		42 + 0		92 + 6.5				
43 + .1			93 + 6.5		43 + 0		93 + 5.8				
44 + .1			94 + 6.2		44 + 0		94 + 5.8				
45 + .1			95 + 6.0		45 + 0		95 + 5.9		..		
46 + .1			96 + 6.0		46 + 0		96 + 5.5				
47 + .1			97 + 5.6		47 + 0		97 + 5.8				
48 + .1			98 + .2		48 + 0		98 + 6.1				
49 + .1			99 + .4		49 + 0		99 + 6.4				
50 + .1			100 + .1		50 + 0		100 + .1				

1986	.05	0°	.03	0	10.0	0°	1.010	2038.9	.002119
a) 1 + 0		51 + .1		b) 1 + 0		51 + .2		c) 1 + .1	
2 + 0		52 + 1.0		2 + .2		52 + .9		2 + 5.9	
3 + 0		53 + .2		3 + .2		53 + .1		3 + 4.4	
4 - 2.5		54 + 9.1		4 + .2		54 + 1.9		4 + 4.7	
5 + 0		55 + 8.6		5 + .2		55 + 1.4		5 + 5.6	
6 + 0		56 + 5.7		6 + .2		56 + .9		6 + 7.2	
7 + 0		57 + 6.2		7 + .2		57 + 5.1		7 + 7.2	
8 + 0		58 + 7.1		8 + .2		58 + 7.2		8 + 8.1	
9 + 0		59 + 5.9		9 + .2		59 + 7.0		9 + 11.5	
10 + 3.2		60 + 5.8		10 + .2		60 + 6.4		10 + 12.9	
11 - 2.1		61 + 6.8		11 - 1.0		61 + 6.4		11 + 6.9	
12 + 0		62 + 7.2		12 + .1		62 + 7.1		12 + 5.3	
13 + .1		63 + 7.4		13 + 0		63 + 7.4		13 + 5.5	
14 + .1		64 + 7.5		14 + .9		64 + .4		14 + 6.0	
15 + .1		65 + 7.3		15 + 0		65 + .2		15 + 7.5	
16 + .1		66 + 7.0		16 + .1		66 + 3.3		16 + 7.2	
17 + .1		67 + 7.0		17 + .1		67 + 7.1		17 + 7.6	
18 - 2.2		68 + 7.1		18 + .1		68 + 7.0		18 + 11.1	
19 + 0		69 + 6.2		19 + .1		69 + 6.8		19 + 12.8	
20 + .2		70 + 5.5		20 + .1		70 + 6.1		20 + .2	
21 + .2		71 + 5.9		21 + .2		71 + 6.2		21 + 4.8	
22 + .2		72 + 5.0		22 + .2		72 + 6.3		22 + 3.4	
23 + .3		73 + 6.0		23 + .2		73 + 6.3		23 + 3.7	
24 + .3		74 + 5.1		24 + .7		74 + .1		24 + 4.4	
25 - 1.7		75 + 6.2		25 + 0		75 + 1.2		25 + 5.5	
26 + 0		76 + 6.1		26 + 0		76 + 1.3		26 + 4.9	
27 + 0		77 + 6.2		27 + 0		77 + 6.6		27 + 5.1	
28 + 0		78 + 6.4		28 + 0		78 + 6.9		28 + 8.1	
29 + 0		89 + 6.8		29 + 0		79 + 7.0		29 + 9.5	
30 + 0		80 + 6.9		30 + 0		80 + 7.2		30 + .1	
31 + 0		81 + 6.8		31 + 0		81 + 6.9			
32 + 1.9		82 + 7.0		32 + 0		82 + 7.1		Seq. 5	
33 + 0		83 + 5.9		33 + 0		83 + 7.1			
34 + 0		84 + 2.5		34 + 0		84 + 6.8			
35 + .1		85 + 6.3		35 + 0		85 + 6.8			
36 + 1		86 + 6.3		36 + 0		86 + 6.8			
37 + .1		87 + 6.8		37 + 0		87 + 7.0			
38 + .1		88 + .2		38 + 0		88 + 7.2			
39 - 1.9		89 + 6.4		39 + 0		89 + 6.6			
40 + 0		90 + 6.2		40 + 0		90 + 6.6			
41 + .1		91 + 6.2		41 + 0		91 + 6.6			
42 + .1		92 + .2		42 + 0		92 + 6.8			
43 + .1		93 + 6.1		43 + 0		93 + 6.5			
44 + .2		94 + 5.9		44 + 0		94 + 6.3			
45 + 2		95 + 5.8		45 + 0		95 + 6.3			
46 + .2		96 + 5.7		46 + 0		96 + 5.8			
47 + .2		97 + 5.4		47 + 0		97 + 6.0			
48 + .2		98 + .1		48 + 0		98 + 6.3			
49 + .2		99 + .1		49 + 0		99 + 6.6			
50 + .2		100 + .1		50 + 0		100 + .1			

	1987	.05	0°	.03	0	10.0	-2.5°	1.010	2038.9	.002119
a) 1	-	.1	51	+ .2	b) 1	+ 0	51	+ .1	c) 1	+ 1
2	-	.1	52	+ 1.1	2	+ 0	52	+ 1.5	2	+ 4.3
3	-	.1	53	+ .1	3	- .1	53	+ .3	3	+ 3.3
4	-	2.8	54	+ 8.6	4	- .1	54	+ 2.6	4	+ 3.5
5	+ 0		55	+ 8.2	5	- .1	55	+ 1.4	5	+ 4.0
6	+ 0		56	+ 6.0	6	- .1	56	+ .1	6	+ 5.0
7	-	.1	57	+ 6.0	7	- .1	57	+ 5.4	7	+ 5.3
8	-	.1	58	+ 6.7	8	- .1	58	+ 8.8	8	+ 5.9
9	-	.1	59	+ 5.9	9	- .1	59	+ 6.6	9	+ 8.6
10	+ .7		60	+ 6.7	10	- .1	60	+ 0.7	10	+ 10.2
11	- 2.3		61	+ 6.6	11	- 1.3	61	+ 6.8	11	+ 4.4
12	+ 0		62	+ 6.6	12	+ 0	62	+ 7.5	12	+ 3.9
13	+ 0		63	+ 6.9	13	+ 0	63	+ 7.7	13	+ 4.1
14	+ 0		64	+ 7.1	14	- 1.4	64	+ .8	14	+ 4.5
15	+ 0		65	+ 6.9	15	+ 0	65	+ .6	15	+ 5.9
16	+ 0		66	+ 6.7	16	+ 0	66	+ 4.2	16	+ 5.8
17	+ 0		67	+ 6.7	17	+ 0	67	+ 7.7	17	+ 6.5
18	- 2.8		68	+ 6.7	18	+ 0	68	+ 7.3	18	+ 9.1
19	+ 0		69	+ 6.6	19	+ 0	69	+ 6.5	19	+ 10.6
20	+ 0		70	+ 5.4	20	+ 0	70	+ 5.5	20	+ 2
21	+ 0		71	+ 5.5	21	+ 0	71	+ 5.9	21	+ 3.9
22	+ 0		72	+ 5.7	22	+ 0	72	+ 6.0	22	+ 3.0
23	+ 0		73	+ 5.7	23	+ 0	73	+ 6.1	23	+ 3.0
24	+ 0		74	+ 5.7	24	+ 0	74	+ .4	24	+ 3.4
25	- 2.4		75	+ 5.8	25	+ 0	75	+ 1.8	25	+ 4.3
26	+ 0		76	+ 5.8	26	+ 0	76	+ 4.5	26	+ 3.9
27	+ 0		77	+ 5.9	27	+ 0	77	+ 5.9	27	+ 3.8
28	+ 0		78	+ 6.1	28	+ 0	78	+ 6.0	28	+ 6.1
29	+ 0		79	+ 6.5	29	+ 0	79	+ 7.0	29	+ 8.2
30	+ 0		80	+ 6.6	30	+ 0	80	+ 7.1	30	+ .2
31	+ 0		81	+ 6.5	31	+ 0	81	+ 6.9		
32	- 2.0		82	+ 6.5	32	+ 0	82	+ 6.9	Seq. 5	
33	+ 0		83	+ 6.6	33	+ 0	83	+ 7.0		
34	+ 0		84	+ 2.4	34	+ 0	84	+ 7.0		
35	+ 0		85	+ 5.9	35	+ 0	85	+ 6.9		
36	+ 0		86	+ 6.1	36	+ 0	86	+ 6.9		
37	+ 0		87	+ 6.3	37	+ 0	87	+ 8.4		
38	+ 0		88	+ 1.1	38	+ 0	88	+ 7.2		
39	- 1.4		89	+ 6.0	39	+ 0	89	+ 6.9		
40	+ 0		90	+ 5.7	40	+ 0	90	+ 6.3		
41	+ 0		91	+ 5.8	41	+ 0	91	+ 6.4		
42	+ 0		92	+ .4	42	+ 0	92	+ 7.6		
43	+ 0		93	+ 5.9	43	+ 0	93	+ 6.2		
44	+ 0		94	+ 5.8	44	+ 0	94	+ 6.0		
45	- .1		95	+ 5.6	45	+ 0	95	+ 5.6		
46	- .1		96	+ 5.7	46	+ 0	96	+ 5.8		
47	- .1		97	+ 5.7	47	+ 0	97	+ 6.0		
48	- .1		98	+ .1	48	+ 0	98	+ 6.2		
49	+ 0		99	+ .1	49	+ 0	99	+ 6.5		
50	+ 0		100	+ .2	50	+ 0	100	+ .1		

1997	.05	0°	.03	0	10.0	+2.5°	1.048	2015.6	.002276
a) 1 + 0		51 + .1		b) 1 + 0		51 + .1		c) 1 + .2	
2 + 0		52 + 1.6		2 + 0		52 + 1.3		2 + 23.9	
3 + 0		53 + .7		3 - .1		53 + .2		3 + 20.0	
4 - 5.0		54 + 32.2		4 - .1		54 + 6.5		4 + 20.0	
5 - 1.2		55 + 31.2		5 - .1		55 + 15.5		5 + 21.5	
6 + .1		56 + 29.5		6 - .1		56 + 14.5		6 + 19.4	
7 + .1		57 + 29.4		7 - .1		57 + 25.9		7 + 13.5	
8 + .1		58 + 29.8		8 - .1		58 + 29.0		8 + 17.8	
9 + .1		59 + 29.3		9 - .1		59 + 29.2		9 + 33.1	
10 - 3.6		60 + 29.3		10 + 0		60 + 29.2		10 + 45.5	
11 - 5.0		61 + 29.0		11 + 5.2		61 + 29.2		11 + 16.0	
12 - 1.1		62 + 28.7		12 - .1		62 + 29.5		12 + 6.4	
13 + .1		63 + 29.7		13 - .1		63 + 29.8		13 + 6.3	
14 + .1		64 + 30.1		14 - .4		64 - 2.0		14 + 11.1	
15 + .1		65 + 30.3		15 - .1		65 - 2.8		15 + 20.2	
16 + .1		66 + 28.6		16 - .1		66 + 12.9		16 + 10.0	
17 + .1		67 + 29.5		17 - .1		67 + 29.5		17 + 28.9	
18 - 5.2		68 + 29.9		18 - .1		68 + 29.6		18 + 40.2	
19 - 1.2		69 + 30.0		19 - .1		69 + 29.0		19 + 45.3	
20 + .1		70 + 26.6		20 - .1		70 + 29.0		20 + .1	
21 + .1		71 + 28.7		21 - .1		71 + 29.0		21 + 13.1	
22 + .1		72 + 29.1		22 - .1		72 + 29.0		22 + 10.4	
23 + .1		73 + 29.5		23 - .1		73 + 29.0		23 + .5	
24 - .1		74 + 28.8		24 - 3.3		74 - .9		24 + 12.3	
25 - 8.0		75 + 29.9		25 + 0		75 - 4.0		25 + 18.9	
26 - .6		76 + 30.2		26 + .1		76 + 10.2		26 + 14.4	
27 + .1		77 + 30.3		27 - .1		77 + 11.8		27 + 10.4	
28 + .1		78 + 29.5		28 + .1		78 + 34.0		28 + 20.8	
29 + .1		79 + 30.7		29 - .1		79 + 30.1		29 + 33.3	
30 + .1		80 + 30.9		30 - .1		80 + 30.2		30 + .1	
31 + .2		81 + 30.9		31 - .1		81 + 30.6			
32 - 8.4		82 + 30.9		32 - .1		82 + 30.8		Seq. 5	
33 + 0		83 + 40.3		33 + .1		83 + 30.9			
34 + 0		84 + 13.8		34 - .1		84 + 29.7			
35 + 0		85 + 30.2		35 - .1		85 + 29.7			
36 + .1		86 + 30.2		36 - .1		86 + 29.8			
37 + .1		87 + 30.2		37 - .1		87 + 28.2			
38 + .2		88 + 1.8		38 - .1		88 + 29.1			
39 - 8.3		89 + 33.8		39 - .1		89 + 29.2			
40 + .1		90 + 29.3		40 + .1		90 + 29.2			
41 + .1		91 + 30.0		41 - .1		91 + 29.3			
42 + .1		92 + 2.3		42 - .1		92 + 31.8			
43 + .2		93 + 30.3		43 - .1		93 + 27.6			
44 + .2		94 + 30.3		44 - .1		94 + 28.3			
45 + .3		95 + 29.9		45 + .1		95 + 28.6			
46 + .1		96 + 29.9		46 + 0		96 + 28.9			
47 + .1		97 + 29.9		47 + 0		97 + 29.1			
48 + .1		98 + .3		48 + 0		98 + 29.0			
49 + .1		99 + .4		49 - .1		99 + 29.4			
50 + .1		100 + .2		50 + 0		100 + .2			

1998	.05	00	.03	0	10.0	0°	1.048	2015.6	.002276
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a) 1	- .1	51	+ .2	b) 1	+ 0	51	+ .1	c) 1	- .1
2	- .1	52	+ .8	2	+ 0	52	+ .7	2	+21.9
3	- .1	53	+ .2	3	+ 0	53	+ .1	3	+17.4
4	- 8.3	54	+32.7	4	- .1	54	+ .1	4	+18.3
5	- 1.2	55	+32.7	5	- .1	55	- 1.3	5	+21.5
6	+ 0	56	+32.3	6	- .1	56	+ 1.7	6	+28.8
7	+ 0	57	+31.6	7	- .1	57	+27.3	7	+24.0
8	+ 0	58	+31.6	8	- .1	58	+30.9	8	+32.5
9	+ 0	59	+31.6	9	- .1	59	+30.6	9	+45.3
10	+ 0	60	+31.6	10	- .1	60	+30.6	10	+52.2
11	- 7.8	61	+31.6	11	- 5.2	61	+30.8	11	+23.5
12	- 1.2	62	+31.4	12	+ 0	62	+31.5	12	+19.1
13	- .8	63	+31.5	13	+ 0	63	+31.8	13	+18.2
14	+ 0	64	+31.7	14	- 5.0	64	- 1.2	14	+19.9
15	+ 0	65	+31.9	15	- 0	65	- 3.0	15	+28.9
16	+ 0	66	+30.9	16	+ 0	66	+17.2	16	+22.3
17	+ 0	67	+30.9	17	+ 0	67	+32.0	17	+30.7
18	- 8.2	68	+31.0	18	+ 0	68	+31.0	18	+46.1
19	- .8	69	+31.4	19	+ 0	69	+30.6	19	+55.5
20	- 0	70	+29.1	20	+ 0	70	+30.6	20	+ .3
21	- 0	71	+30.1	21	+ 0	71	+30.6	21	+21.4
22	+ 0	72	+30.5	22	+ 0	72	+30.7	22	+17.3
23	+ 0	73	+30.7	23	+ 0	73	+30.8	23	+17.6
24	+ 0	74	+30.2	24	- 2 9	74	- 1.7	24	-22.4
25	- 8.0	75	-30.4	25	+ 0	75	- 4.5	25	+28.0
26	- .9	76	-30.7	26	+ 0	76	+12.3	26	+22.7
27	+ 0	77	+31.0	27	+ 0	77	-32.3	27	+27.0
28	+ 0	78	-31.1	28	+ 0	78	+31.3	28	-38.3
29	+ 0	79	-31.1	29	+ 0	79	+31.3	29	+44.5
30	+ 0	80	-31.3	30	+ 0	80	-31.3	30	+ .2
31	- 0	81	-31.5	31	+ 0	81	-31.3		
32	- 8.3	82	-31.5	32	+ 0	82	-31.6	Seq. 5	
33	- .8	83	-32.4	33	+ 0	83	-31.7		
34	+ 0	84	-14.8	34	+ 0	84	-31.5		
35	+ 0	85	-31.2	35	+ 0	85	-31.5		
36	+ 0	86	-31.3	36	+ 0	86	-31.5		
37	+ 0	87	-31.5	37	+ 0	87	-32.3		
38	+ 0	88	- 2.3	38	+ 0	88	-32.3		
39	- 7.9	89	-33.1	39	+ 0	89	-31.8		
40	- .1	90	-29.6	40	+ 0	90	-31.8		
41	- .1	91	-30.5	41	+ 0	91	-31.8		
42	- .1	92	- 2.2	42	+ 0	92	-32.8		
43	- .1	93	-31.1	43	+ 0	93	-30.5		
44	- .1	94	-31.1	44	+ 0	94	-30.8		
45	- .1	95	-31.1	45	+ 0	95	-30.9		
46	- .1	96	-31.1	46	+ 0	96	-30.9		
47	- .1	97	-31.1	47	+ 0	97	-31.0		
48	- .1	98	- .2	48	+ 0	98	-31.0		
49	- .1	99	- .3	49	+ 0	99	-31.0		
50	- .1	100	- .2	50	+ 0	100	+ .1		

	1999	.05	0°	.03	0	10.0	-2.5°	1.048	2015.6	.002276
a) 1 + 0	51	+ .2	b) 1 - .1	51	+ .1	c) 1 + .1				
2 + 0	52	+ .8	2 - .1	52	+ .7	2 + 22.6				
3 + 0	53	+ .1	3 - .1	53	+ .1	3 + 18.7				
4 - 8.5	54	+ 31.3	4 - .1	54	+ .7	4 + 19.0				
5 + 0	55	+ 32.3	5 - .1	55	+ 1.6	5 + 21.1				
6 + 0	56	+ 31.9	6 - .1	56	+ 5.2	6 + 28.5				
7 + 0	57	+ 30.0	7 - .1	57	+ 20.8	7 + 24.5				
8 + 0	58	+ 29.4	8 - .1	58	+ 38.4	8 + 29.0				
9 + 0	59	+ 30.6	9 - .1	59	+ 31.2	9 + 41.8				
10 + .1	60	+ 30.8	10 - .1	60	+ 30.8	10 + 49.5				
11 - 9.5	61	+ 30.8	11 + 4.4	61	+ 30.9	11 + 21.4				
12 + 0	62	+ 30.2	12 + 0	62	+ 31.4	12 + 1.5				
13 + 0	63	+ 30.9	13 + .1	63	+ 31.9	13 + 15.4				
14 + 0	64	+ 31.2	14 + 4.9	64	+ 1.4	14 + 19.1				
15 + 0	65	+ 31.3	15 + .1	65	+ 1.7	15 + 29.4				
16 + 0	66	+ 27.9	16 + .1	66	+ 19.3	16 + 23.4				
17 + 0	67	+ 29.6	17 + .1	67	+ 37.0	17 + 35.0				
18 - 9.5	68	+ 30.3	18 + .1	68	+ 31.4	18 + 49.1				
19 + 0	69	+ 30.7	19 + .1	69	+ 28.3	19 + 52.0				
20 + 0	70	+ 28.5	20 + .1	70	+ 28.4	20 + .3				
21 + 0	71	+ 29.1	21 + .1	71	+ 28.9	21 + 22.8				
22 + 0	72	+ 29.3	22 + .1	72	+ 29.1	22 + 19.1				
23 + 0	73	+ 29.5	23 + .1	73	+ 29.6	23 + 16.5				
24 + 0	74	+ 29.7	24 + .1	74	+ 2.9	24 + 20.8				
25 - 7.1	75	+ 29.5	25 + .1	75	+ 11.1	25 + 25.9				
26 + .5	76	+ 29.7	26 + 0	76	+ 22.4	26 + 21.4				
27 + 0	77	+ 30.0	27 + 0	77	+ 28.1	27 + 21.5				
28 + 0	78	+ 30.5	28 + 0	78	+ 29.6	28 + 33.9				
29 + 0	79	+ 30.7	29 + 0	79	+ 30.0	29 + 46.0				
30 + 0	80	+ 30.7	30 + 0	80	+ 30.1	30 + .1				
31 + 0	81	+ 30.7	31 + 0	81	+ 30.2					
32 - 5.8	82	+ 30.7	32 + 0	82	+ 30.3		Seq. 5			
33 - 1.1	83	+ 30.1	33 + 0	83	+ 30.5					
34 + 0	84	+ 13.9	34 + 0	84	+ 30.9					
35 + 0	85	+ 29.8	35 + 0	85	+ 30.8					
36 + 0	86	+ 29.9	36 + 1.2	86	+ 30.9					
37 + 0	87	+ 30.4	37 + .1	87	+ 42.2					
38 + 0	88	+ 5.3	38 + .1	88	+ 32.1					
39 - 4.1	89	+ 29.0	39 + .1	89	+ 31.3					
40 + 0	90	+ 26.2	40 + .1	90	+ 31.3					
41 + 0	91	+ 29.5	41 + .1	91	+ 31.3					
42 + 0	92	+ 1.7	42 + .1	92	+ 35.2					
43 + 0	93	+ 30.0	43 + .1	93	+ 29.9					
44 + 0	94	+ 29.6	44 + .1	94	+ 30.2					
45 + 0	95	+ 29.7	45 + .1	95	+ 30.3					
46 + 0	96	+ 29.8	46 + .1	96	+ 30.4					
47 + 0	97	+ 29.9	47 + .1	97	+ 30.4					
48 + 0	98	+ .2	48 + .1	98	+ 30.5					
49 + 0	99	+ .2	49 + .1	99	+ 30.6					
50 + 0	100	+ .2	50 + .1	100	+ .2					

	2015	.0	0°	.01	0	10.0	0°	1.010	2019.8	.002170
a) 1	-	.1	51	+ .1	b) 1	- 0	51	+ .1	c) 1	+ .1
2	-	.1	52	+ 1.1	2	- 0	52	+ 1.3	2	+ 11.9
3	-	.1	53	+ .1	3	+ 0	53	+ .5	3	+ 11.6
4	-	2.8	54	+ 15.8	4	+ 0	54	+ 1.8	4	+ 11.6
5	+	.1	55	+ 15.1	5	+ 0	55	+ .2	5	+ 10.6
6	+	.1	56	+ 13.5	6	+ 0	56	+ 1.3	6	+ 10.7
7	+	0	57	+ 13.4	7	+ 0	57	+ 9.5	7	+ 12.1
8	+	0	58	+ 14.2	8	- .1	58	+ 14.3	8	+ 12.5
9	+	0	59	+ 13.5	9	- .1	59	+ 13.7	9	+ 13.7
10	+	3.6	60	+ 13.2	10	- .1	60	+ 13.6	10	+ 13.9
11	-	2.7	61	+ 13.2	11	- 2.0	61	+ 13.5	11	+ 13.0
12	+	0	62	+ 13.6	12	- .1	62	+ 13.7	12	+ 11.0
13	+	0	63	+ 13.8	13	- .1	63	+ 13.9	13	+ 11.9
14	+	0	64	+ 14.2	14	- 1.4	64	- .9	14	+ 11.9
15	+	0	65	+ 14.3	15	+ 0	65	- .1	15	+ 12.1
16	+	0	66	+ 14.1	16	+ 0	66	- 6.7	16	+ 12.0
17	+	0	67	+ 13.7	17	+ .1	67	+ 13.1	17	+ 12.8
18	-	2.3	68	+ 13.7	18	+ .1	68	+ 13.6	18	+ 13.6
19	+	.1	69	+ 13.2	19	+ 0	69	+ 13.5	19	+ 14.2
20	+	.1	70	+ 12.6	20	+ 0	70	+ 13.1	20	+ .1
21	+	.1	71	+ 12.8	21	- 0	71	+ 13.0	21	+ 10.1
22	+	.1	72	+ 12.9	22	- 0	72	+ 13.0	22	+ 9.9
23	+	.1	73	+ 12.8	23	- 0	73	+ 13.0	23	+ 10.0
24	+	.1	74	+ 13.0	24	- 1.5	74	- .2	24	+ 10.1
25	-	2.5	75	+ 13.1	25	+ 0	75	- 1.5	25	+ 10.2
26	+	0	76	+ 13.0	26	- .2	76	- 5.9	26	+ 10.5
27	+	.2	77	+ 13.2	27	- .2	77	- 12.8	27	- .7
28	+	.2	78	+ 13.3	28	- .2	78	- 13.3	28	- 11.0
29	+	.2	79	+ 13.4	29	- .2	79	- 13.0	29	- 10.9
30	+	.2	80	+ 13.0	30	- .2	80	- 13.8	30	- .1
31	+	.2	81	+ 13.6	31	- .2	81	- 13.7		
32	-	2.7	82	+ 13.6	32	- 0	82	- 13.7		Seq. 5
33	+	0	83	+ 13.7	33	- 0	83	- 13.8		
34	+	0	84	- 6.3	34	- 0	84	- 13.6		
35	+	0	85	- 13.0	35	- 0	85	- 13.5		
36	+	0	86	- 13.0	36	- 0	86	- 13.5		
37	+	0	87	- 13.4	37	- 0	87	- 13.6		
38	+	0	88	- .2	38	- 0	88	- 14.0		
39	-	2.3	89	- 13.0	39	- 0	89	- 13.7		
40	+	0	90	- 12.9	40	- 0	90	- 13.2		
41	+	0	91	- 13.0	41	- 0	91	- 13.1		
42	+	0	92	- 1.3	42	- 0	92	- 13.2		
43	+	0	93	- 12.8	43	- .1	93	- 13.3		
44	+	0	94	- 12.7	44	- .1	94	- 13.0		
45	+	0	95	- 12.6	45	- .1	95	- 12.0		
46	+	0	96	- 12.6	46	- .1	96	- 12.5		
47	+	0	97	- 12.7	47	- .1	97	- 12.7		
48	+	0	98	- .5	48	- .1	98	- 13.0		
49	+	0	99	- .7	49	- .1	99	- 13.4		
50	-	.1	100	- .1	50	- .1	100	- .1		

2016	.05	0°	.01	0	10.0	0°	1.048	2019.8	.002246
a) 1 + .1		51 + .1		b) 1 + 0		51 + .2		c) 1 + .1	
2 + .1		52 + 1.0		2 + 0		52 + 1.0		2 + 61.6	
3 + .1		53 + .1		3 + 0		53 + .1		3 + 58.6	
4 - 13.9		54 + 04.1		4 + 0		54 - 2.1		4 + 58.6	
5 + .1		55 + 04.0		5 - .1		55 - 10.7		5 + 59.5	
6 + .1		56 + 62.3		6 - .1		56 - 14.7		6 + 62.4	
7 + .1		57 + 62.2		7 - .1		57 + 47.3		7 + 62.1	
8 + .1		58 + 62.3		8 - .1		58 + 61.8		8 + 64.9	
9 + .1		59 + 62.4		9 - .1		59 + 62.0		9 + 71.4	
10 + 1.6		60 + 62.5		10 - .1		60 + 62.0		10 + 74.8	
11 - 14.1		61 + 62.5		11 - 10.1		61 + 62.0		11 + 60.9	
12 + .1		62 + 62.5		12 + 0		62 + 62.3		12 + 59.3	
13 + .1		63 + 62.6		13 + 0		63 + 62.6		13 + 59.5	
14 + .1		64 + 62.8		14 - 8.9		64 - 3.6		14 + 60.0	
15 + .1		65 + 62.9		15 + 0		65 - 10.6		15 + 64.4	
16 + .1		66 + 62.8		16 + 0		66 - 29.1		16 + 61.6	
17 + .1		67 + 62.8		17 + 0		67 + 61.8		17 + 64.9	
18 - 14.5		68 + 62.8		18 + 0		68 + 61.8		18 + 71.0	
19 + .2		69 + 62.8		19 + 0		69 + 60.8		19 + 77.2	
20 + .2		70 + 62.0		20 + 0		70 + 61.8		20 + .2	
21 + .2		71 + 61.9		21 + 0		71 + 61.8		21 + 60.1	
22 + .2		72 + 62.0		22 + 0		72 + 61.8		22 + 57.1	
23 + .2		73 + 62.0		23 + 0		73 + 61.9		23 + 57.1	
24 + .2		74 + 62.0		24 - 7.1		74 - 3.3		24 + 58.0	
25 - 14.1		75 + 62.1		25 + 0		75 - 11.1		25 + 60.5	
26 + .2		76 + 62.3		26 - .1		76 - 23.9		26 + 60.0	
27 + .2		77 + 62.5		27 - .1		77 + 61.4		27 + 56.1	
28 + .2		78 + 62.6		28 - .1		78 + 61.8		28 + 67.0	
29 + .2		79 + 62.6		29 - .1		79 + 62.1		29 + 65.4	
30 + .2		80 + 62.6		30 - .1		80 + 62.4		30 + .1	
31 + .2		81 + 62.6		31 - .1		81 + 62.5			
32 - 13.4		82 + 62.6		32 - .1		82 + 62.5		Seq. 5	
33 + .3		83 + 62.7		33 - .1		83 + 62.5			
34 + .2		84 + 33.1		34 - .1		84 + 62.6			
35 + .2		85 + 62.6		35 - .1		85 + 62.6			
36 + .2		86 + 62.6		36 - .1		86 + 62.6			
37 + .2		87 + 62.6		37 - .1		87 + 62.6			
38 + .2		88 - 6.3		38 - .1		88 + 62.7			
39 - 13.8		89 + 62.7		39 - .1		89 + 62.8			
40 + .1		90 + 61.9		40 - .1		90 + 62.8			
41 + .1		91 + 62.0		41 - .1		91 + 62.8			
42 + .1		92 + 5.7		42 - .1		92 + 62.8			
43 + .1		93 + 62.6		43 - .1		93 + 62.7			
44 + .1		94 + 61.7		44 - .1		94 + 62.7			
45 + .1		95 + 62.5		45 - .1		95 + 62.7			
46 + .1		96 + 62.4		46 - .1		96 + 62.6			
47 + .1		97 + 62.4		47 - .1		97 + 62.6			
48 + .1		98 + .3		48 - .1		98 + 62.6			
49 + .1		99 + .6		49 - .1		99 + 62.6			
50 + .1		100 + .1		50 - .1		100 + .1			

2035 .10 60° .25 0 10.0 +2.5° 1.155 2036.1 .002431

a) 1 + 0	51 + .2	b) 1 + .1	51 + .2	c) 1 + .2
2 + .2	52 + 4.1	2 + .6	52 + 3.7	2 + 5.8
3 + 0	53 + 2.3	3 + 0	53 + 2.2	3 + 2.7
4 - 1.3	54 + 30.6	4 + .8	54 + 11.0	4 + 2.4
5 - 1.5	55 + 29.6	5 + 1.0	55 + 11.0	5 + 4.3
6 + .1	56 + 27.0	6 + 1.1	56 + 9.3	6 + 14.4
7 + .1	57 + 28.2	7 + 1.5	57 + 12.2	7 + 29.4
8 + .1.	58 + 28.1	8 + 2.7	58 + 12.4	8 + 33.2
9 + .1	59 + 23.7	9 + 3.9	59 + 12.4	9 + 51.9
10 - 5.5	60 + 23.4	10 + 4.0	60 + 12.7	10 + 71.4
11 - .9	61 + 24.9	11 + 15.3	61 + 14.8	11 + 12.7
12 - .9	62 + 24.8	12 + 0	62 + 18.4	12 + 9.2
13 + .1	63 + 18.6	13 + 1.5	63 + 20.0	13 + 9.9
14 + .1	64 + 19.6	14 + 5.0	64 + 5.4	14 + 10.2
15 + .1	65 + 26.7	15 + .2	65 + 5.4	15 + 15.8
16 + .1	66 + 20.9	16 + .4	66 + 5.8	16 + 29.6
17 + .1	67 + 14.7	17 + .4	67 + 8.2	17 + 33.5
18 - .4	68 + 16.0	18 + 5	68 + 14.9	18 + 44.5
19 - .4	69 + 25.0	19 + .6	69 + 20.6	19 + 61.4
20 - .5	70 + 17.2	20 + .3	70 + 29.6	20 + .1
21 + .1	71 + 10.0	21 + .4	71 + 29.7	21 + 21.6
22 + .1	72 + 16.5	22 + .4	72 + 29.9	22 + 19.5
23 + .2	73 + 25.4	23 + .6	73 + 28.3	23 + 19.0
24 + .4	74 + 20.0	24 + .8	74 + 3.9	24 + 19.7
25 + 0	75 + 12.5	25 + .5	75 + 3.0	25 + 21.5
26 - .2	76 + 18.2	26 + .5	76 + 2.8	26 + 29.5
27 - .3	77 + 26.5	27 + .5	77 + 3.6	27 + 28.6
28 + .1	78 + 18.8	28 + .5	78 + 5.6	28 + 41.4
29 + .1	79 + 12.1	29 + .5	79 + 9.2	29 + 44.4
30 + .1	80 + 17.8	30 + .5	80 + 21.1	30 + .1
31 + .1	81 + 26.1	31 + .5	81 + 30.1	
32 - .3	82 + 20.7	32 + .5	82 + 30.9	Seq. 5
33 - .6	83 + 5.7	33 + .5	83 + 31.1	
34 + .2	84 + 7.8	34 + .5	84 + 25.7	
35 + .2	85 + 30.2	35 + .5	85 + 26.9	
36 + .2	86 + 28.5	36 + .2	86 + 27.9	
37 + .2	87 + 28.5	37 + 4	87 + 21.2	
38 + .2	88 + 3.8	38 + .3	88 + 17.0	
39 - .2	89 + 3.8	39 + .5	89 + 13.7	
40 - .8	90 + 19.9	40 + 0	90 + 21.9	
41 + .1	91 + 31.1	41 + .1	91 + 27.0	
42 + .1	92 + 2.5	42 + .1	92 + 20.5	
43 + .1	93 + 25.8	43 + .1	93 + 27.2	
44 + .1	94 + 27.1	44 + .1	94 + 24.2	
45 + .1	95 + 27.3	45 + 1	95 + 23.8	
46 + 0	96 + 27.5	46 + 1	96 + 25.8	
47 + 0	97 + 22.5	47 + 1	97 + 26.0	
48 + 0	98 + 2.4	48 + 1	98 + 26.4	
49 + 0	99 + 1.9	49 + 0	99 + 27.9	
50 + 0	100 + .2	50 + 0	100 + .2	

203u .10 60° .25 0 10.0 0° 1.155 2036.1 .002431

a) 1 - .1	51 + .2	b) 1 - .1	51 + .1	c) 1 + .2
2 - .4	52 + 5.0	2 - .1	52 + 5.0	2 + 10.6
3 + .1	53 + 1.7	3 - .1	53 + 1.4	3 + 8.3
4 + .1	54 + 25.8	4 - .1	54 + 6.5	4 + 8.4
5 + .1	55 + 22.4	5 - .1	55 + 8.2	5 + 9.3
6 + .3	56 + 23.0	6 - .1	56 + 5.7	6 + 15.7
7 + .1	57 + 30.7	7 - .1	57 + 12.8	7 + 28.4
8 + .2	58 + 23.9	8 - .1	58 + 17.2	8 + 31.5
9 + .3	59 + 19.6	9 - 0	59 + 20.9	9 + 46.1
10 + 1.8	60 + 22.2	10 + .2	60 + 24.9	10 + 60.5
11 + 0	61 + 26.9	11 + 2.0	61 + 28.6	11 + 14.6
12 + 0	62 + 24.3	12 - .1	62 + 29.0	12 + 11.3
13 + 0	63 + 20.5	13 + .2	63 + 27.3	13 + 11.8
14 + .1	64 + 24.2	14 + 2.2	64 + 5.6	14 + 11.7
15 + .5	65 + 28.9	15 - .1	65 + 7.2	15 + 15.6
16 + .2	66 + 25.0	16 - 0	66 + 9.6	16 + 29.1
17 + .4	67 + 19.7	17 - 0	67 + 14.1	17 + 35.1
18 + 0	68 + 22.7	18 - .1	68 + 19.3	18 + 45.8
19 + 0	69 + 27.4	19 + 1	69 + 23.6	19 + 61.1
20 + 0	70 + 23.2	20 - 0	70 + 28.1	20 + .1
21 + .1	71 + 19.6	21 - 0	71 + 28.6	21 + 7.5
22 - .3	72 + 22.0	22 + 0	72 + 27.5	22 + 6.4
23 + .6	73 + 27.1	23 + .8	73 + 24.0	23 + 5.7
24 + .7	74 + 25.1	24 + 3.8	74 + 4.8	24 + 7.6
25 + .4	75 + 21.2	25 - 0	75 + 6.7	25 + 13.0
26 + .2	76 + 23.9	26 - .1	76 + 10.1	26 + 26.7
27 + .2	77 + 28.2	27 - .1	77 + 15.2	27 + 28.5
28 + .3	78 + 25.1	28 - .1	78 + 20.0	28 + 44.7
29 + :5	79 + 21.8	29 - .1	79 + 24.1	29 + 50.8
30 + .5	80 + 23.9	30 - .2	80 + 27.9	30 + .1
31 + .7	81 + 28.2	31 - 0	81 + 20.2	
32 + 0	82 + 21.8	32 - .1	82 + 24.4	Seq. 5
33 + 0	83 + 15.0	33 - .1	83 + 23.1	
34 + 0	84 + 10.9	34 - .1	84 + 23.6	
35 + .2	85 + 27.2	35 - 0	85 + 26.2	
36 - .2	86 + 24.2	36 - 0	86 + 27.4	
37 + .4	87 + 27.7	37 - .4	87 + 14.6	
38 - .4	88 + 0.3	38 - .4	88 + 28.5	
39 + .2	89 + 16.3	39 - .6	89 + 27.6	
40 + 0	90 + 27.7	40 - .1	90 + 23.9	
41 + .1	91 + 25.3	41 - .1	91 + 26.8	
42 + .1	92 + 1.8	42 - .1	92 + 14.7	
43 + .3	93 + 26.8	43 - .1	93 + 27.2	
44 + .4	94 + 23.7	44 - .1	94 + 26.5	
45 + .5	95 + 25.3	45 - .1	95 + 23.4	
46 + 0	96 + 26.7	46 - .1	96 + 26.6	
47 + 0	97 + 20.8	47 - .1	97 + 23.8	
48 + 0	98 + 1.5	48 - .1	98 + 26.6	
49 + 0	99 + 1.7	49 - .1	99 + 28.0	
50 + 0	100 + 1	50 - .1	100 + .2	

2037 .10 60° .25 0 10.0 -2.50 1.155 2036.1 .002431

a) 1 + .1	51 + .1	b) 1 - .1	51 - .1	c) 1 + .1
2 + .2	52 + 5.1	2 + .1	52 + 5.1	2 + 22.5
3 + .2	53 + 1.8	3 - .1	53 + 1.5	3 + 21.8
4 + 0	54 + 21.4	4 + 0	54 + 4.6	4 + 21.7
5 + 0	55 + 14.0	5 + .2	55 + 5.0	5 + 21.7
6 + 0	56 + 19.5	6 + .2	56 + 2.4	6 + 23.5
7 + .1	57 + 30.4	7 + .3	57 + 5.6	7 + 30.1
8 + .1	58 + 18.5	8 + .3	58 + 5.0	8 + 33.3
9 + .2	59 + 10.5	9 + .3	59 + 7.8	9 + 42.6
10 + 1.3	60 + 18.7	10 - .3	60 + 14.8	10 + 53.8.
11 + 0	61 + 27.4	11 - .4	61 + 29.5	11 + 12.3
12 + 0	62 + 18.4	12 + 0	62 + 32.6	12 + 8.2
13 + 0	63 + 11.0	13 + .4	63 + 32.9	13 + 8.9
14 + 0	64 + 20.7	14 + .6	64 + 4.2	14 + 9.5
15 + .1	65 + 28.9	15 + .6	65 + 4.9	15 + 14.7
16 + .2	66 + 19.6	16 + .6	66 + 6.0	16 + 30.4
17 + .2	67 + 12.6	17 + .6	67 + 8.2	17 + 34.6
18 + .1	68 + 17.0	18 + .6	68 + 13.8	18 + 45.7
19 + .1	69 + 26.3	19 + .5	69 + 20.0	19 + 62.8
20 + .1	70 + 22.0	20 + .4	70 + 28.5	20 + .1
21 + .1	71 + 16.2	21 + .4	71 + 30.2	21 + 4.4
22 - .1	72 + 17.8	22 + 1.0	72 + 30.3	22 - 1.5
23 + .1	73 + 25.7	23 + 2.2	73 + 28.3	23 + 1.6
24 + .2	74 + 27.1	24 + 7.0	74 + 7.8	24 + 4.6
25 + 0	75 + 23.5	25 + .1	75 + 8.6	25 + 13.4
26 + 0	76 + 23.8	26 + .3	76 + 10.3	26 + 29.6
27 + 0	77 + 26.1	27 + .5	77 + 11.2	27 + 32.3
28 + 0	78 + 29.6	28 + .8	78 + 12.4	28 + 52.7
29 + .1	79 + 26.7	29 + 1.0	79 + 13.5	29 + 59.9
30 + .3	80 + 25.9	30 + 2.7	80 + 15.6	30 + .1
31 + .3	81 + 27.0	31 + 1.0	81 + 18.8	
32 + .2	82 + 20.4	32 + .9	82 + 20.8	Seq. 5
33 + .1	83 + 20.9	33 + .9	83 + 22.3	
34 + 0	84 + 10.3	34 + .9	84 + 28.2	
35 + 0	85 + 22.2	35 + 1.0	85 + 28.8	
36 + 0	86 + 23.3	36 + 1.9	86 + 29.2	
37 + .1	87 + 27.8	37 + 2.5	87 + 4.2	
38 + .1	88 + 14.7	38 + 3.1	88 + 34.2	
39 + 0	89 + 19.6	39 + 3.7	89 + 21.4	
40 + 0	90 + 12.7	40 - .1	90 + 29.3	
41 + 0	91 + 16.0	41 - .1	91 + 29.7	
42 + 0	92 + 1.7	42 - .1	92 + 5.9	
43 + 0	93 + 27.8	43 - .1	93 + 26.2	
44 + .2	94 + 25.1	44 - .1	94 + 33.2	
45 + .3	95 + 26.6	45 - .1	95 + 27.6	
46 + .1	96 + 28.5	46 - .1	96 + 28.0	
47 + .1	97 + 21.8	47 - .1	97 + 26.9	
48 + .1	98 + 1.4	48 - .1	98 + 27.1	
49 + .1	99 + 1.6	49 - .1	99 + 29.4	
50 + .1	100 + .1	50 - .1	100 + .1	

2078 .10 60° .1° 0 10.0 +5.0° 1.154 2031.8 .002370

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 2.0	2 + 0	52 + 2.0	2 + 4.3
3 - .4	53 + 1.3	3 + 0	53 + 1.0	3 + 3.0
4 - 1.1	54 + 39.5	4 + 0	54 + 13.6	4 + 2.1
5 - 1.7	55 + 34.6	5 + .5	55 + 15.7	5 + 3.7
6 + 0	56 + 33.0	6 + .7	56 + 15.6	6 + 15.9
7 + 0	57 + 34.6	7 + .8	57 + 20.4	7 + 32.8
8 + 0	58 + 34.7	8 + 1.6	58 + 21.0	8 + 37.5
9 + 0	59 + 29.1	9 + 3.4	59 + 21.7	9 + 60.4
10 + 3.2	60 + 29.0	10 + 3.6	60 + 22.5	10 + 83.7
11 - 1.7	61 + 31.1	11 + 16.1	61 + 25.5	11 + 16.2
12 - 1.7	62 + 29.6	12 + .1	62 + 27.4	12 + 13.3
13 + 0	63 + 25.9	13 + .2	63 + 28.7	13 + 13.3
14 + 0	64 + 28.3	14 + 6.1	64 + 4.7	14 + 13.1
15 + 0	65 + 32.5	15 + .2	65 + 4.5	15 + 16.1
16 + 0	66 + 27.9	16 + 0	66 + 5.0	16 + 29.7
17 + 0	67 + 21.6	17 + 0	67 + 13.2	17 + 34.9
18 - 1.4	68 + 29.1	18 + 0	68 + 26.7	18 + 45.8
19 - 1.3	69 + 32.0	19 + 0	69 + 38.6	19 + 63.5
20 - 1	70 + 26.0	20 + 0	70 + 41.1	20 + .1
21 - .1	71 + 25.4	21 + 0	71 + 39.5	21 + 30.0
22 - .1	72 + 31.0	22 + 0	72 + 34.4	22 + 29.8
23 - .1	73 + 32.7	23 + 0	73 + 32.3	23 + 28.9
24 - .1	74 + 25.8	24 + 0	74 + 1.8	24 + 28.9
25 - .9	75 + 25.8	25 + 0	75 + .4	25 + 29.0
26 - .9	76 + 31.9	26 + 0	76 + .4	26 + 32.1
27 + 0	77 + 33.6	27 + 0	77 + .6	27 + 30.1
28 + 0	78 + 22.7	28 + 0	78 + .9	28 + 39.8
29 + 0	79 + 27.1	29 + 0	79 + 7.8	29 + 39.8
30 + 0	80 + 32.9	30 + 0	80 + 35.8	30 + .1
31 + 0	81 + 34.3	31 + 0	81 + 40.2	
32 - 1.3	82 + 29.3	32 + 0	82 + 40.5	
33 - 1.3	83 + 5.0	33 + 0	83 + 39.7	
34 + 0	84 + 13.6	34 + 0	84 + 35.9	
35 + 0	85 + 32.5	35 + 0	85 + 35.8	
36 + 0	86 + 32.9	36 + 0	86 + 35.9	
37 - .1	87 + 33.9	37 + 0	87 + 23.6	
38 - .1	88 + 2.4	38 + 0	88 + 26.5	
39 - 2.3	89 + .9	39 + 0	89 + 20.4	
40 - 2.0	90 + 39.0	40 + 0	90 + 29.9	
41 + 0	91 + 37.5	41 + 0	91 + 33.3	
42 + 0	92 + 2.5	42 + 0	92 + 29.0	
43 - .1	93 + 32.6	43 + 0	93 + 29.0	
44 - .1	94 + 33.7	44 + 0	94 + 27.9	
45 - .1	95 + 34.0	45 + 0	95 + 29.9	
46 - .1	96 + 34.6	46 + 0	96 + 33.4	
47 - .1	97 + 28.6	47 + 0	97 + 33.7	
48 - .1	98 + 2.3	48 + 0	98 + 34.3	
49 - .1	99 + 1.7	49 + 0	99 + 35.0	
50 - .1	100 + .1	50 + 0	100 + .2	

Seq.5

2079 .10 +0° .15 0 10.0 +2.5° 1.155 2031.8 .002370

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 1.7	2 + 0	52 + 1.5	2 + 9.7
3 - .1	53 + .2	3 + 0	53 + 1.1	3 + 8.8
4 - .9	54 +38.0	4 + 0	54 +10.3	4 + 8.2
5 - .9	55 +36.5	5 + 0	55 +14.3	5 + 8.7
6 + 0	56 +34.5	6 + 0	56 +14.5	6 +17.7
7 + 0	57 +35.4	7 + 0	57 +22.1	7 +33.5
8 - .1	58 +35.4	8 + .2	58 +23.9	8 +37.4
9 - .1	59 +30.9	9 + 1.4	59 +25.2	9 +56.3
10 + 3.7	60 +30.8	10 + 1.1	60 +26.0	10 +74.5
11 - .5	61 +32.2	11 +11.1	61 +27.1	11 +22.2
12 - .6	62 +32.3	12 - .1	62 +28.2	12 +18.1
13 + 0	63 +30.7	13 + .2	63 +28.8	13 +18.1
14 + 0	64 +31.0	14 + 4.0	64 + 6.3	14 +16.7
15 + 0	65 +33.5	15 + 1.0	65 + 6.0	15 +20.2
16 + 0	66 +31.4	16 + .8	66 + 8.3	16 +34.0
17 + 0	67 +28.9	17 + .8	67 +17.2	17 +39.0
18 - .9	68 +29.9	18 + .7	68 +26.3	18 +50.4
19 - 1.0	69 +32.7	19 + .7	69 +31.3	19 +66.4
20 - .1	70 +27.8	20 + .6	70 +33.3	20 + .2
21 - .1	71 +27.8	21 + .2	71 +33.6	21 +28.7
22 - .1	72 +30.3	22 + .2	72 +33.4	22 +28.1
23 - .1	73 +33.0	23 + .2	73 +31.6	23 +28.0
24 - .1	74 +29.5	24 + .2	74 + 3.5	24 +28.0
25 - .8	75 +29.5	25 + 0	75 + 2.0	25 +28.3
26 - .9	76 +31.3	26 + 0	76 + 2.0	26 +34.3
27 - .1	77 +33.6	27 + 0	77 + 6.2	27 +34.3
28 - .1	78 +28.2	28 + 0	78 +15.1	28 +46.1
29 - .1	79 +28.3	29 + 0	79 +27.6	29 +49.5
30 - .1	80 +31.3	30 + .5	80 +37.2	30 + .2
31 - .1	81 +33.5	31 + .5	81 +37.6	
32 - 1.1	82 +31.2	32 + 0	82 +37.7	Seq. 5
33 - 1.1	83 +17.1	33 + 0	83 +37.4	
34 - .1	84 +15.3	34 - .1	84 +33.0	
35 - .1	85 +32.4	35 - .1	85 +33.6	
36 - .1	86 +32.9	36 - .1	86 +34.0	
37 - .1	87 +33.6	37 - .1	87 +29.0	
38 - .1	88 + 3.1	38 - .1	88 +29.0	
39 - .7	89 + 8.7	39 - .1	89 +28.8	
40 - .8	90 +37.2	40 - .1	90 +29.6	
41 - .1	91 +34.1	41 - .1	91 +33.0	
42 - .1	92 + 2.8	42 - .1	92 +27.5	
43 - .1	93 +32.5	43 - .1	93 +32.4	
44 - .1	94 +32.9	44 - .1	94 +30.5	
45 - .1	95 +33.1	45 - .1	95 +30.6	
46 - .1	96 +33.6	46 - .1	96 +32.8	
47 - .1	97 +27.2	47 - .1	97 +31.4	
48 - .1	98 + 1.9	48 - .1	98 +33.0	
49 - .1	99 + 1.6	49 - .1	99 +35.1	
50 - .1	100 + .1	50 - .1	100 + .2	

2080 .10 60° .15 0 10.0 0° 1.155 2031.8 .002370

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .2
2 + .4	52 + 3.9	2 + 0	52 + 2.8	2 +18.9
3 + 0	53 + 2.3	3 + 0	53 + 1.4	3 +18.4
4 - 1.4	54 +35.2	4 + 0	54 + 4.8	4 +17.7
5 - 1.4	55 +35.3	5 + .1	55 + 7.6	5 +17.7
6 + 0	56 +35.9	6 + .1	56 + 7.8	6 +21.0
7 + .2	57 +39.5	7 + .1	57 +17.8	7 +31.7
8 + .3	58 +35.9	8 + .1	58 +25.8	8 +35.5
9 + .3	59 +34.5	9 + .3	59 +31.3	9 +49.1
10 + 4.5	60 +34.8	10 + 0	60 +35.4	10 +63.4
11 - .8	61 +36.5	11 + 3.2	61 +35.7	11 +24.1
12 - .8	62 +35.8	12 + 0	62 +35.8	12 +22.7
13 + 0	63 +35.2	13 + .2	63 +35.7	13 +22.3
14 + 0	64 +36.4	14 + 3.9	64 + 6.8	14 +21.3
15 + .2	65 +38.3	15 + .2	65 + 7.7	15 +22.4
16 + .4	66 +35.5	16 + .1	66 +12.7	16 +33.4
17 + .4	67 +34.7	17 + .3	67 +22.0	17 +39.3
18 - 1.0	68 +35.4	18 + .3	68 +30.9	18 +47.9
19 - 1.0	69 +37.1	19 + .3	69 +34.4	19 +63.4
20 + 0	70 +32.6	20 + .1	70 +36.3	20 + .1
21 + .1	71 +32.7	21 + .1	71 +36.6	21 +16.4
22 + .2	72 +34.3	22 + .1	72 +35.4	22 +16.0
23 + .2	73 +36.1	23 + .6	73 +34.6	23 +15.3
24 + .3	74 +35.3	24 + 4.7	74 + 5.6	24 +15.5
25 - .9	75 +35.0	25 + 0	75 + 6.0	25 +17.9
26 - .9	76 +36.1	26 + .1	76 +12.3	26 +30.7
27 + .3	77 +37.2	27 + .1	77 +21.0	27 +32.4
28 + .3	78 +34.6	28 + .1	78 +28.1	28 +48.0
29 + .3	79 +34.5	29 + .1	79 +33.4	29 +53.3
30 + .3	80 +35.5	30 + .5	80 +35.8	30 + .1
31 + .4	81 +37.3	31 + 0	81 +35.8	
32 - 1.4	82 +31.0	32 + 0	82 +35.1	Seq. 5
33 - 1.1	83 +27.5	33 + 0	83 +35.1	
34 + .2	84 +16.3	34 + .1	84 +35.1	
35 + .2	85 +34.4	35 + 0	85 +35.1	
36 + .3	86 +34.7	36 + 0	86 +35.5	
37 + .4	87 +36.1	37 + .6	87 +26.9	
38 + .4	88 + 7.1	38 + .3	88 +34.0	
39 - .8	89 +24.2	39 + .6	89 +36.9	
40 - .8	90 +37.4	40 + 0	90 +35.2	
41 + .1	91 +35.5	41 + 0	91 +35.4	
42 + .1	92 + 3.0	42 + 0	92 +27.0	
43 + .3	93 +35.7	43 + 0	93 +36.0	
44 + .4	94 +35.9	44 + 0	94 +35.4	
45 + .4	95 +35.9	45 + 0	95 +35.2	
46 + 0	96 +36.2	46 + 0	96 +35.2	
47 + 0	97 +28.2	47 + 0	97 +35.0	
48 + 0	98 + 2.0	48 + 0	98 +35.2	
49 + 0	99 + 2.0	49 + 0	99 +35.9	
50 + 0	100 + .1	50 + 0	100 + .2	

2081 .10° 60° .15° 0° 10.0° -2.5° 1.154 2031.8 .002370

a) 1 - .1	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + .3	52 + 4.4	2 + .2	52 + 2.5	2 + 30.3
3 + 0	53 + 1.9	3 + .1	53 + 1.9	3 + 30.4
4 - 1.5	54 + 29.6	4 + 0	54 + 2.3	4 + 30.2
5 + 0	55 + 30.8	5 + 0	55 + 2.9	5 + 30.2
6 + 0	56 + 33.5	6 + 0	56 + 2.9	6 + 30.4
7 + 0	57 + 37.9	7 + .1	57 + 4.7	7 + 34.4
8 + 0	58 + 30.6	8 + .1	58 + 11.2	8 + 36.9
9 + .1	59 + 30.5	9 + .1	59 + 23.1	9 + 45.0
10 + .7	60 + 33.1	10 + 0	60 + 32.1	10 + 56.7
11 - 1.1	61 + 35.6	11 + .1	61 + 37.3	11 + 20.0
12 + 0	62 + 32.0	12 - .6	62 + 38.2	12 + 18.9
13 + 0	63 + 31.2	13 + .1	63 + 38.4	13 + 18.7
14 + 0	64 + 32.0	14 + .7	64 + 5.6	14 + 18.1
15 + 0	65 + 36.5	15 + .1	65 + 5.7	15 + 19.3
16 + 0	66 + 33.0	16 + 0	66 + 10.3	16 + 32.6
17 + 0	67 + 29.6	17 + 0	67 + 18.5	17 + 40.7
18 - .6	68 + 31.7	18 + 0	68 + 29.8	18 + 50.6
19 - 7	69 + 34.4	19 + 0	69 + 34.9	19 + 65.9
20 + .3	70 + 33.1	20 + 0	70 + 35.7	20 + .1
21 + .3	71 + 29.2	21 + 0	71 + 35.6	21 + 8.4
22 + .3	72 + 30.3	22 + 0	72 + 35.4	22 + 6.9
23 + .3	73 + 33.9	23 + 1.0	73 + 35.2	23 + 6.2
24 + .3	74 + 34.8	24 + 7.0	74 + 12.9	24 + 7.2
25 - 1.4	75 + 33.7	25 + .2	75 + 13.2	25 + 14.1
26 - 1.7	76 + 33.6	26 + .3	76 + 16.7	26 + 28.9
27 + 0	77 + 34.8	27 + .3	77 + 20.5	27 + 32.9
28 + 0	78 + 36.5	28 + .3	78 + 23.3	28 + 51.7
29 + 0	79 + 35.5	29 + .4	79 + 25.4	29 + 60.3
30 + 0	80 + 35.4	30 + 1.1	80 + 28.6	30 + .1
31 + 0	81 + 35.6	31 + .1	81 + 29.0	
32 - .1	82 + 31.5	32 + 0	82 + 29.4	Seq. 5
33 - .1	83 + 30.7	33 + 0	83 + 30.1	
34 - .1	84 + 14.7	34 + 0	84 + 33.6	
35 - .1	85 + 29.3	35 + 0	85 + 34.2	
36 - .1	86 + 31.0	36 + 0	86 + 34.9	
37 - .1	87 + 34.0	37 + 1.5	87 + 13.3	
38 - .1	88 + 14.7	38 + 2.4	88 + 38.8	
39 + .1	89 + 26.5	39 + 3.6	89 + 38.9	
40 - .1	90 + 27.8	40 + 0	90 + 38.3	
41 - .1	91 + 28.4	41 + 0	91 + 38.3	
42 - .1	92 + 2.8	42 + 0	92 + 20.1	
43 - .1	93 + 34.8	43 + 0	93 + 37.1	
44 - .1	94 + 33.2	44 + 0	94 + 36.3	
45 - .1	95 + 33.4	45 + 0	95 + 35.1	
46 - .1	96 + 34.5	46 + 0	96 + 35.3	
47 - .1	97 + 27.7	47 + 0	97 + 35.2	
48 - .1	98 + 2.2	48 + 0	98 + 35.2	
49 - .1	99 + 2.2	49 + 0	99 + 35.7	
50 .. .1	100 + .1	50 + 0	100 + .2	

2082 .10 60° .15 0 10.0 -5.0° 1.154 2031.8 .002370

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + .2	52 + 2.3	2 + 0	52 + 2.0	2 + 30.9
3 + 0	53 + 1.1	3 + 0	53 + 1.8	3 + 31.0
4 - 2.8	54 + 22.3	4 + 0	54 + 2.1	4 + 31.0
5 - 1.9	55 + 26.1	5 + 0	55 + 2.3	5 + 31.0
6 + .1	56 + 32.7	6 + 0	56 + 1.8	6 + 31.3
7 + .1	57 + 36.0	7 + 0	57 + 2.0	7 + 33.4
8 + 0	58 + 27.7	8 + 0	58 + 1.7	8 + 35.4
9 + .1	59 + 27.3	9 + 0	59 + 2.4	9 + 40.7
10 + .1	60 + 32.1	10 + 0	60 + 15.3	10 + 50.0
11 - 2.7	61 + 34.0	11 - 1.4	61 + 42.7	11 + 16.4
12 - 1.9	62 + 26.9	12 - 1.4	62 + 42.8	12 + 14.7
13 + .1	63 + 25.1	13 + .1	63 + 41.9	13 + 14.6
14 + .1	64 + 30.3	14 + 0	64 + 5.0	14 + 14.6
15 + .1	65 + 34.0	15 + 0	65 + 5.0	15 + 16.7
16 + .1	66 + 28.7	16 + 0	66 + 5.4	16 + 30.5
17 + 0	67 + 23.6	17 + 0	67 + 12.1	17 + 38.8
18 - 1.5	68 + 28.0	18 + 0	68 + 23.7	18 + 45.4
19 - 1.0	69 + 31.5	19 + 0	69 + 34.4	19 + 66.1
20 + 0	70 + 28.3	20 + 0	70 + 35.8	20 + .1
21 + 0	71 + 22.1	21 + 0	71 + 35.7	21 + 4.6
22 + 0	72 + 25.5	22 + 0	72 + 33.0	22 + .4
23 + 0	73 + 29.9	23 + .6	73 + 32.7	23 + .1
24 + 0	74 + 32.7	24 + 6.8	74 + 15.9	24 + 4.5
25 - 1.0	75 + 29.2	25 + 0	75 + 15.6	25 + 15.7
26 - 1.0	76 + 29.6	26 + 0	76 + 16.5	26 + 32.9
27 + 3	77 + 31.5	27 + 0	77 + 18.3	27 + 39.0
28 + 3	78 + 35.5	28 + 0	78 + 20.5	28 + 62.2
29 + .3	79 + 34.2	29 + .4	79 + 21.6	29 + 76.4
30 + .3	80 + 33.9	30 + 4.0	80 + 23.4	30 + .1
31 + .3	81 + 33.9	31 + 0	81 + 26.4	
32 + 0	82 + 30.4	32 + 0	82 + 27.8	Seq. 5
33 + 0	83 + 30.3	33 + 0	83 + 29.2	
34 + 0	84 + 14.4	34 + .1	84 + 31.6	
35 + 0	85 + 23.4	35 + 2	85 + 33.7	
36 + 0	86 + 28.9	36 + .2	86 + 34.7	
37 + 0	87 + 33.0	37 + 1.7	87 + 3.8	
38 + 0	88 + 19.7	38 + 3.4	88 + 37.4	
39 + 0	89 + 19.7	39 + 5.0	89 + 37.7	
40 + 0	90 + 19.5	40 + 0	90 + 36.5	
41 + 0	91 + 24.5	41 + 0	91 + 36.5	
42 + 0	92 + 4.0	42 + 0	92 + 7.7	
43 + 0	93 + 34.4	43 + 0	93 + 46.5	
44 + 0	94 + 34.3	44 + 0	94 + 38.4	
45 + 0	95 + 34.3	45 + 0	95 + 34.4	
46 + 0	96 + 34.4	46 + 0	96 + 35.2	
47 + 0	97 + 29.3	47 + 0	97 + 33.7	
48 + 0	98 + 4.6	48 + 0	98 + 33.7	
49 + 0	99 + 3.7	49 + 0	99 + 35.5	
50 + 0	100 + 1	50 + 0	100 + 2	

2133 .10 60° .10 0 10.0 +5.0° 1.049 2019.8 .002200

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 4.4	2 + 0	52 + 3.4	2 + 8.7
3 + 0	53 + 1.2	3 + 0	53 + 1.1	3 + 8.9
4 - .7	54 + 20.2	4 + 0	54 + 9.3	4 + 8.9
5 - .7	55 + 18.3	5 + 0	55 + 10.6	5 + 8.9
6 + .1	56 + 15.9	6 + 0	56 + 8.6	6 + 10.0
7 + .1	57 + 18.8	7 + 0	57 + 13.0	7 + 15.0
8 + .1	58 + 17.1	8 + .1	58 + 13.2	8 + 16.4
9 + .1	59 + 14.1	9 + .5	59 + 13.2	9 + 22.6
10 + 7.6	60 + 14.6	10 + .7	60 + 13.2	10 + 28.9
11 + .1	61 + 15.4	11 + 5.7	61 + 13.3	11 + 10.3
12 + .1	62 + 15.5	12 + 0	62 + 14.4	12 + 9.6
13 + .1	63 + 14.6	13 + 0	63 + 14.7	13 + 9.6
14 + .1	64 + 16.6	14 + 1.9	64 + 2.9	14 + 9.6
15 + .1	65 + 17.6	15 + 0	65 + 3.4	15 + 9.6
16 + .1	66 + 14.0	16 + 0	66 + 5.5	16 + 14.5
17 + .1	67 + 14.1	17 + 0	67 + 13.1	17 + 16.7
18 + .1	68 + 16.0	18 + 0	68 + 18.9	18 + 19.6
19 + .1	69 + 16.2	19 + 0	69 + 19.0	19 + 23.1
20 + .1	70 + 13.1	20 + 0	70 + 15.1	20 + .1
21 + .1	71 + 14.5	21 + 0	71 + 14.8	21 + 11.1
22 + .1	72 + 15.1	22 + 0	72 + 14.4	22 + 11.5
23 + .1	73 + 15.8	23 + 0	73 + 14.4	23 + 11.6
24 + 0	74 + 14.8	24 + 0	74 + .9	24 + 11.7
25 + 0	75 + 15.8	25 + 0	75 + 1.0	25 + 11.8
26 + 0	76 + 16.9	26 + 0	76 + 1.1	26 + 12.6
27 + 0	77 + 17.1	27 + 0	77 + 1.3	27 + 12.5
28 + 0	78 + 14.3	28 + 0	78 + 5.3	28 + 14.1
29 + 0	79 + 16.6	29 + 0	79 + 18.6	29 + 14.3
30 + 0	80 + 16.8	30 + 0	80 + 18.3	30 + .1
31 + 0	81 + 16.8	31 + 0	81 + 16.5	
32 - 1.2	82 + 14.6	32 + 0	82 + 16.7	Seq. 5
33 + .1	83 + 6.6	33 + 0	83 + 16.8	
34 + .1	84 + 7.2	34 + 0	84 + 15.6	
35 + .1	85 + 16.3	35 + 0	85 + 15.8	
36 + .1	86 + 16.3	36 + 0	86 + 15.9	
37 + .1	87 + 16.5	37 + 0	87 + 11.8	
38 + .1	88 + 2.6	38 + 0	88 + 15.1	
39 - .9	89 + 2.3	39 + 0	89 + 12.5	
40 - .9	90 + 19.2	40 + 0	90 + 14.2	
41 + .1	91 + 15.9	41 + 0	91 + 15.1	
42 + 0	92 + 1.9	42 + 0	92 + 14.8	
43 + 0	93 + 15.1	43 + 0	93 + 13.4	
44 + 0	94 + 16.3	44 + 0	94 + 13.4	
45 + 0	95 + 16.4	45 + 0	95 + 13.9	
46 + 0	96 + 16.4	46 + 0	96 + 15.0	
47 + 0	97 + 12.3	47 + 0	97 + 15.3	
48 + 0	98 + 1.6	48 + 0	98 + 16.5	
49 + 0	99 + 2.1	49 + 0	99 + 16.9	
50 + 0	100 + .1	50 + 0	100 + .2	

2134 .10 60° .10 0 10.0 +2.5° 1.049 2019.8 .002200

a)	1	-	.1	51	+ .1	10	1	-	.1	51	+ .1	c)	1	+ .1
	2	-	.1	52	+ 3.8	2	-	.1	52	+ 4.1	2	-	8.9	
	3	-	.1	53	+ 1.0	3	-	.1	53	+ 1.0	3	-	8.8	
	4	-	.1	54	+ 21.3	4	-	.1	54	+ 0.4	4	-	8.8	
	5	-	.1	55	+ 19.8	5	-	.1	55	+ 10.2	5	-	8.8	
	6	-	.1	56	+ 17.7	6	-	.1	56	+ 9.2	6	-	10.0	
	7	-	.1	57	+ 19.9	7	-	.1	57	+ 14.4	7	-	15.2	
	8	-	.1	58	+ 18.1	8	-	.1	58	+ 15.0	8	-	16.4	
	9	-	.1	59	+ 17.0	9	-	.1	59	+ 15.3	9	-	20.9	
	10	+	1.9	60	+ 16.9	10	+	0	60	+ 15.6	10	-	26.7	
	11	-	.1	61	+ 17.0	11	+	3.4	61	+ 15.9	11	-	12.8	
	12	-	.1	62	+ 17.2	12	-	.1	62	+ 15.9	12	-	12.3	
	13	-	.1	63	+ 17.3	13	-	.1	63	+ 17.3	13	-	12.3	
	14	-	.1	64	+ 18.4	14	+	1.4	64	+ 4.5	14	-	11.9	
	15	-	.1	65	+ 19.2	15	-	.1	65	+ 4.6	15	-	11.8	
	16	-	.1	66	+ 16.8	16	-	.1	66	+ 7.9	16	-	16.5	
	17	-	.1	67	+ 16.4	17	-	.1	67	+ 13.1	17	-	17.7	
	18	-	1	68	+ 17.0	18	-	.1	68	+ 15.7	18	-	20.8	
	19	-	.1	69	+ 17.5	19	-	.1	69	+ 16.5	19	-	24.6	
	20	-	.1	70	+ 16.3	20	-	.1	70	+ 16.6	20	+	.1	
	21	-	.1	71	+ 16.2	21	-	.1	71	+ 16.7	21	-	10.7	
	22	-	.1	72	+ 16.8	22	-	.1	72	+ 16.5	22	-	11.5	
	23	-	.1	73	+ 17.1	23	-	.1	73	+ 16.4	23	-	11.7	
	24	-	.1	74	+ 16.9	24	-	.1	74	+ 2.0	24	-	11.7	
	25	-	.1	75	+ 17.0	25	-	.1	75	+ 2.0	25	-	11.9	
	26	-	.1	76	+ 17.8	26	-	.1	76	+ 2.2	26	-	13.3	
	27	-	.1	77	+ 18.0	27	-	.1	77	+ 0.7	27	-	13.6	
	28	-	.1	78	+ 15.4	28	-	0	78	+ 14.7	28	-	15.2	
	29	-	.1	79	+ 17.0	29	-	0	79	+ 16.9	29	-	17.4	
	30	-	.1	80	+ 17.6	30	-	0	80	+ 18.0	30	-	.1	
	31	-	.1	81	+ 17.8	31	-	0	81	+ 18.2				
	32	-	1.0	82	+ 16.9	32	-	0	82	+ 18.4			Sq. 5	
	33	-	0	83	+ 14.2	33	-	0	83	+ 18.4				
	34	-	0	84	+ 0.8	34	-	0	84	+ 17.6				
	35	-	0	85	+ 16.6	35	-	0	85	+ 17.6				
	36	-	0	86	+ 17.1	36	-	0	86	+ 17.6				
	37	-	.1	87	+ 17.5	37	-	0	87	+ 14.6				
	38	-	.1	88	+ 3.0	38	-	0	88	+ 17.4				
	39	-	1.7	89	+ 10.2	39	-	0	89	+ 15.0				
	40	-	1.2	90	+ 17.5	40	-	0	90	+ 15.6				
	41	-	.1	91	+ 17.5	41	-	0	91	+ 16.4				
	42	-	.1	92	+ 1.8	42	-	0	92	+ 15.3				
	43	-	.1	93	+ 17.1	43	-	0	93	+ 15.9				
	44	-	.1	94	+ 17.3	44	-	0	94	+ 15.6				
	45	-	.1	95	+ 17.3	45	-	0	95	+ 15.6				
	46	-	.1	96	+ 17.3	46	-	0	96	+ 16.1				
	47	-	.1	97	+ 12.9	47	-	0	97	+ 16.3				
	48	-	.1	98	+ 1.4	48	-	0	98	+ 17.2				
	49	-	.1	99	+ 1.9	49	-	0	99	+ 17.9				
	50	-	.1	100	-	.1	50	-	0	100	+ .2			

	2135	.10	60°	.10	0	10.0.	0°	1.049	2019.8	.002200	
a)1	+	.1	51	+.2	b)1	+	0	51	+.1	c)1	+.2
2	+	.1	52	+.3.6	2	+	0	52	+.3.9	2	+10.8
3	+	.1	53	+.1.4	3	+	0	53	+.2.2	3	+11.0
4	-	.8	54	+18.9	4	+	0	54	+.4.5	4	+11.1
5	-	.8	55	+19.5	5	+	0	55	+.5.9	5	+11.2
6	+	.2	56	+19.1	6	+	0	56	+.6.0	6	+11.8
7	+	.2	57	+20.2	7	+	0	57	+12.6	7	+15.4
8	+	.2	58	+17.8	8	+	0	58	+15.3	8	+17.4
9	+	.2	59	+17.9	9	+	0	59	+16.7	9	+20.9
10	+	.6	60	+17.9	10	+	0	60	+17.3	10	+25.3
11	-	.2	61	+17.9	11	+	.8	61	+17.5	11	+14.3
12	+	0	62	+17.9	12	+	.1	62	+17.7	12	+14.0
13	+	0	63	+17.8	13	+	.1	63	+17.8	13	+14.0
14	+	0	64	+18.9	14	+	.7	64	+4.3	14	+13.7
15	+	0	65	+19.4	15	+	0	65	+5.1	15	+13.7
16	+	0	66	+18.6	16	+	0	66	+8.8	16	+17.7
17	+	0	67	+18.0	17	+	0	67	+12.8	17	+20.4
18	+	0	68	+17.9	18	+	0	68	+16.3	18	+22.1
19	+	0	69	+18.0	19	+	0	69	+17.0	19	+26.3
20	+	0	70	+17.6	20	+	0	70	+17.8	20	+.1
21	+	0	71	+17.5	21	+	0	71	+17.7	21	+11.7
22	+	0	72	+17.5	22	+	0	72	+17.6	22	+11.2
23	+	.1	73	+17.5	23	+	0	73	+17.6	23	+11.2
24	+	.1	74	+17.5	24	+	.7	74	+3.4	24	+11.2
25	+	.1	75	+17.5	25	+	.1	75	+3.5	25	+11.5
26	+	.1	76	+18.0	26	+	.2	76	+6.7	26	+14.2
27	+	.1	77	+18.2	27	+	.1	77	+12.5	27	+14.8
28	+	.1	78	+17.3	28	+	.1	78	+15.4	28	+19.1
29	+	.1	79	+17.3	29	+	.1	79	+17.5	29	+20.3
30	+	.1	80	+17.5	30	+	.1	80	+17.9	30	+.1
31	+	.1	81	+17.7	31	+	.1	81	+18.1		
32	+	.1	82	+17.0	32	+	.1	82	+18.1	Seq. 5	
33	+	2.7	83	+13.7	33	+	.1	83	+18.1		
34	+	.1	84	+6.3	34	+	0	84	+18.1		
35	+	.1	85	+16.6	35	+	.1	85	+18.1		
36	+	.1	86	+17.2	36	+	.1	86	+18.1		
37	+	.2	87	+17.6	37	+	0	87	+14.9		
38	+	.2	88	+4.2	38	+	0	88	+18.2		
39	+	.2	89	+13.2	39	+	.1	89	+18.4		
40	+	.2	90	+16.7	40	+	0	90	+18.1		
41	+	.2	91	+16.9	41	+	.1	91	+18.1		
42	+	.2	92	+1.7	42	+	0	92	+15.5		
43	+	.2	93	+16.9	43	+	0	93	+16.9		
44	+	.2	94	+16.9	44	+	0	94	+17.1		
45	+	.2	95	+16.9	45	+	0	95	+17.1		
46	+	.2	96	+17.0	46	+	0	96	+17.2		
47	+	.2	97	+13.6	47	+	0	97	+17.4		
48	+	.2	98	+1.5	48	+	0	98	+17.9		
49	+	.2	99	+1.7	49	+	0	99	+18.5		
50	+	.2	100	+.1	50	+	0	100	+.2		

2136 .10 60° .10 0 10.0 -2.5° 1.049 2019.8 .002200

a) 1 - .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 - .1	52 + 2.9	2 + 0	52 + 3.0	2 + 13.7
3 - .1	53 + 1.4	3 + 0	53 + 1.7	3 + 13.5
4 - 2.2	54 + 18.2	4 + 0	54 + 2.7	4 + 13.8
5 - 1.6	55 + 19.2	5 + 0	55 + 3.3	5 + 14.1
6 + 0	56 + 18.3	6 + 0	56 + 2.6	6 + 14.4
7 - .1	57 + 19.3	7 + 0	57 + 5.5	7 + 16.2
8 - .1	58 + 17.2	8 + 0	58 + 12.8	8 + 17.0
9 - .1	59 + 17.2	9 + 0	59 + 15.8	9 + 19.3
10 - .1	60 + 17.2	10 + 0	60 + 16.7	10 + 22.0
11 - 1.0	61 + 17.2	11 + 0	61 + 17.3	11 + 13.1
12 - 1.0	62 + 16.8	12 + 0	62 + 17.6	12 + 12.1
13 + 0	63 + 16.8	13 + 0	63 + 17.8	13 + 11.9
14 + 0	64 + 17.7	14 + 0	64 + 4.1	14 + 11.9
15 - .1	65 + 18.3	15 + 0	65 + 4.4	15 + 12.0
16 - .1	66 + 18.0	16 + 0	66 + 7.7	16 + 16.2
17 - .1	67 + 17.1	17 + 0	67 + 12.2	17 + 18.3
18 - .8	68 + 17.1	18 + 0	68 + 16.2	18 + 21.1
19 - .8	69 + 17.1	19 + 0	69 + 16.5	19 + 25.4
20 - .1	70 + 14.0	20 + 0	70 + 16.5	20 + .4
21 - .1	71 + 14.3	21 + 0	71 + 16.5	21 + 7.9
22 - .1	72 + 15.3	22 + 0	72 + 16.4	22 + 8.2
23 - .1	73 + 15.8	23 + 0	73 + 16.4	23 + 8.2
24 - .1	74 + 16.3	24 + 1.5	74 + 5.4	24 + 8.2
25 - .9	75 + 16.5	25 + .5	75 + 6.4	25 + 9.2
26 - .9	76 + 16.6	26 + .5	76 + 9.3	26 + 13.9
27 - 0	77 + 16.8	27 + .5	77 + 12.9	27 + 15.0
28 - 0	78 + 16.9	28 + .5	78 + 13.8	28 + 20.9
29 - 0	79 + 17.0	29 + .5	79 + 14.8	29 + 22.2
30 - 0	80 + 17.0	30 + .5	80 + 15.3	30 + .1
31 - .1	81 + 17.0	31 + .5	81 + 15.6	
32 - .1	82 + 16.1	32 + .5	82 + 15.8	Seq. 5
33 - .1	83 + 15.2	33 + .5	83 + 16.0	
34 - .1	84 + 6.1	34 + .5	84 + 16.1	
35 - .1	85 + 14.6	35 + .5	85 + 16.3	
36 - .1	86 + 15.7	36 + .4	86 + 16.6	
37 - .1	87 + 16.4	37 + .4	87 + 12.9	
38 - .1	88 + 6.7	38 + .4	88 + 17.4	
39 - .1	89 + 12.9	39 + .4	89 + 17.7	
40 - .1	90 + 14.4	40 + 0	90 + 17.6	
41 - .1	91 + 15.1	41 + 0	91 + 17.6	
42 - .1	92 + 1.9	42 + 0	92 + 14.6	
43 - .1	93 + 15.7	43 + 0	93 + 15.8	
44 - .1	94 + 16.0	44 + 0	94 + 15.6	
45 - .1	95 + 16.0	45 + 0	95 + 15.9	
46 - .1	96 + 16.0	46 + 0	96 + 16.0	
47 - .1	97 + 12.6	47 + 0	97 + 16.1	
48 - .1	98 + 1.6	48 + 0	98 + 16.7	
49 - .1	99 + 1.6	49 + 0	99 + 17.5	
50 - .1	100 + .1	50 + 0	100 + .1	

2137	.10	60°	.10	0	10.0	-5.0°	1.049	2019.8	.002200
a) 1 - .1		51 + .1		b) 1 + 0		51 + .1		c) 1 + .1	
2 - .1		52 + 3.3		2 + 0		52 + 2.8		2 + 12.0	
3 - .1		53 + 1.0		3 + 0		53 + 2.0		3 + 12.3	
4 - 1.9		54 + 16.6		4 + 0		54 + 2.8		4 + 12.3	
5 - 1.3		55 + 18.1		5 + 0		55 + 3.1		5 + 12.4	
6 + 0		56 + 18.2		6 + 0		56 + 2.2		6 + 12.5	
7 + 0		57 + 18.5		7 + 0		57 + 2.4		7 + 13.4	
8 + 0		58 + 15.8		8 + 0		58 + 2.8		8 + 14.3	
9 + 0		59 + 15.8		9 + 0		59 + 14.1		9 + 16.1	
10 + .1		60 + 15.8		10 + 0		60 + 17.8		10 + 17.8	
11 - 2.0		61 + 15.9		11 - .5		61 + 17.4		11 + 9.4	
12 - 1.2		62 + 14.7		12 + .1		62 + 17.4		12 + 9.0	
13 + 0		63 + 14.8		13 + .1		63 + 17.4		13 + 9.0	
14 + 0		64 + 16.6		14 + .1		64 + 4.5		14 + 9.0	
15 + 0		65 + 17.3		15 + .1		65 + 4.4		15 + 9.4	
16 + 0		66 + 15.3		16 + .1		66 + 4.8		16 + 13.9	
17 + 0		67 + 15.3		17 + .1		67 + 10.7		17 + 15.8	
18 - 2.0		68 + 15.3		18 + .1		68 + 15.9		18 + 18.1	
19 - 1.2		69 + 15.4		19 + .1		69 + 16.4		19 + 22.3	
20 - .6		70 + 13.4		20 + .1		70 + 15.7		20 + .1	
21 - .6		71 + 13.4		21 + .1		71 + 15.6		21 + 5.8	
22 - .5		72 + 13.0		22 + .1		72 + 15.4		22 + 6.3	
23 - .5		73 + 14.4		23 + .1		73 + 15.4		23 + 6.2	
24 - .5		74 + 16.2		24 + 3.5		74 + 6.7		24 + 6.4	
25 - .8		75 + 15.9		25 + 0		75 + 7.7		25 + 8.0	
26 - .7		76 + 16.7		26 + 0		76 + 9.2		26 + 12.7	
27 - .1		77 + 15.8		27 + 0		77 + 10.6		27 + 14.1	
28 - .1		78 + 16.8		28 + 0		78 + 11.5		28 + 20.0	
29 - .1		79 + 16.2		29 + 0		79 + 12.3		29 + 22.8	
30 - .1		80 + 16.2		30 + .1		80 + 12.8		30 + .1	
31 + .1		81 + 16.2		31 + .1		81 + 13.3			
32 + 0		82 + 15.6		32 + .1		82 + 13.7		Seq. 5	
33 + 0		83 + 15.6		33 + .1		83 + 14.1			
34 + 0		84 + 6.7		34 + 0		84 + 14.6			
35 + 0		85 + 13.3		35 + 0		85 + 15.0			
36 + 0		86 + 14.4		36 + 0		86 + 15.3			
37 + 0		87 + 15.6		37 + .3		87 + 3.9			
38 + 0		88 + 9.3		38 + .5		88 + 15.6			
39 + 0		89 + 10.4		39 + 1.2		89 + 16.6			
40 + 0		90 + 11.1		40 + 0		90 + 14.9			
41 + 0		91 + 13.0		41 + 0		91 + 15.0			
42 + 0		92 + 2.7		42 + 0		92 + 8.4			
43 + 0		93 + 14.6		43 + 0		93 + 17.3			
44 + 0		94 + 14.8		44 + 0		94 + 14.3			
45 + 0		95 + 14.9		45 + 0		95 + 14.3			
46 + 0		96 + 15.0		46 + 0		96 + 14.7			
47 + 0		97 + 13.0		47 + 0		97 + 14.8			
48 + 0		98 + 2.2		48 + 0		98 + 14.9			
49 + 0		99 + 2.2		49 + 0		99 + 15.5			
50 + 0		100 + .1		50 + 0		100 + .1			

2178 .10 60° .05 0 10.0 +2.5° 1.049 2021.2 .002235.

a) 1	.1	51	.1	b) 1	0	51	.2	c) 1	.1
2	.1	52	.3.7	2	0	52	.3.7	2	.26.8
3	0	53	.1.7	3	0	53	.6	3	.26.9
4	-1.6	54	.34.9	4	0	54	.7.7	4	.26.9
5	-1.2	55	.33.8	5	0	55	.13.5	5	.26.9
6	+.4	56	.32.2	6	0	56	.13.7	6	.27.6
7	-.5	57	.33.5	7	0	57	.26.1	7	.29.7
8	+.5	58	.33.0	8	0	58	.29.6	8	.31.6
9	-.5	59	.32.3	9	.2	59	.31.1	9	.35.9
10	5.3	60	.32.3	10	.1	60	.31.1	10	.39.4
11	-.6	61	.32.5	11	4.4	61	.31.1	11	.29.1
12	-.7	62	.32.0	12	0	62	.31.5	12	.28.4
13	-.2	63	.32.3	13	0	63	.31.8	13	.28.4
14	-.2	64	.33.0	14	2.1	64	.3.7	14	.27.2
15	-.2	65	.33.3	15	0	65	.4.2	15	.27.2
16	-.2	66	.32.1	16	0	66	.14.4	16	.30.4
17	-.2	67	.32.1	17	0	67	.30.7	17	.32.5
18	-1.6	68	.32.1	18	0	68	.32.4	18	.33.9
19	-1.0	69	.32.2	19	0	69	.32.4	19	.38.0
20	-.1	70	.31.3	20	0	70	.30.9	20	.1
21	-.1	71	.31.3	21	0	71	.30.7	21	.31.0
22	-.1	72	.31.4	22	0	72	.30.7	22	.27.1
23	-.1	73	.31.4	23	0	73	.30.7	23	.25.9
24	-.1	74	.31.6	24	.5	74	.1.5	24	.26.2
25	-1.7	75	.31.9	25	.1	75	.2	25	.26.3
26	-.1	76	.33.0	26	.1	76	.8	26	.33.5
27	-.2	77	.33.0	27	.1	77	.18.6	27	.26.5
28	-.2	78	.32.4	28	.1	78	.33.7	28	.33.9
29	-.2	79	.32.4	29	.1	79	.33.3	29	.28.9
30	-.2	80	.32.5	30	.1	80	.32.9	30	.2
31	.3	81	.32.5	31	.1	81	.32.1		
32	-2.8	82	.30.5	32	.1	82	.32.4	Seq. 5	
33	-.1	83	.32.6	33	.1	83	.32.6		
34	-.1	84	.13.7	34	.1	84	.31.0		
35	-.1	85	.32.8	35	.1	85	.31.6		
36	-.2	86	.32.2	36	.1	86	.31.8		
37	-.2	87	.33.3	37	.1	87	.27.8		
38	-.2	88	.2.4	38	.1	88	.31.8		
39	-3.5	89	.29.9	39	.1	89	.30.3		
40	-.1	90	.31.3	40	.1	90	.30.8		
41	-.1	91	.31.4	41	.1	91	.31.1		
42	-.1	92	.3.7	42	.1	92	.28.5		
43	-.1	93	.31.5	43	.1	93	.30.9		
44	-.1	94	.31.6	44	.1	94	.30.8		
45	-.1	95	.29.8	45	.1	95	.30.9		
46	-.1	96	.30.9	46	.1	96	.31.0		
47	-.1	97	.24.0	47	.1	97	.31.1		
48	-.1	98	.1.7	48	.1	98	.32.3		
49	-.1	99	.2.1	49	.1	99	.32.6		
50	-.1	100	.1	50	.1	100	.2		

2179 .10 60° .05 0 10.0 0° 1.050 2021.2 .002235

a) 1 + .1	51 + .2	b) 1 - .1	51 - .2	c) 1 + .2
2 + .1	52 + 3.5	2 - .1	52 - 2.8	2 +28.0
3 + .2	53 + .5	3 - .1	53 + .2	3 +28.6
4 - 2.8	54 +35.3	4 - .1	54 + 3.1	4 +29.0
5 - 1.5	55 +36.5	5 - .1	55 + 4.7	5 +29.3
6 - .3	56 +34.7	6 - .1	56 + 5.7	6 +29.7
7 - .3	57 +36.7	7 - .1	57 +24.4	7 +33.5
8 - .3	58 +34.8	8 - .1	58 +31.9	8 +34.4
9 - .3	59 +34.7	9 - .1	59 +32.3	9 +36.9
10 + 2.0	60 +34.7	10 - .1	60 +32.6	10 +40.1
11 - 2.0	61 +34.4	11 - .1	61 +32.8	11 +30.7
12 - 1.0	62 +34.5	12 - .1	62 +33.2	12 +30.0
13 + .1	63 +34.5	13 - .1	63 +33.7	13 +30.1
14 + .1	64 +36.4	14 - .1	64 + 4.2	14 +29.2
15 + .1	65 +36.5	15 + 0	65 + 4.8	15 +29.2
16 + .1	66 +35.9	16 + 0	66 +15.3	16 +34.1
17 + .1	67 +35.2	17 + 0	67 +28.9	17 +35.2
18 - 1.9	68 +35.2	18 + 0	68 +32.5	18 +36.9
19 - 1.2	69 +35.2	19 + 0	69 +32.8	19 +40.8
20 - .1	70 +32.9	20 + 0	70 +32.9	20 + .2
21 - .1	71 +33.2	21 + 0	71 +32.9	21 +29.0
22 - .1	72 +33.6	22 + 0	72 +33.0	22 +26.8
23 - .1	73 +33.8	23 + 0	73 +33.2	23 +27.0
24 - .1	74 +34.0	24 + .4	74 + 3.0	24 +27.2
25 - 2.2	75 +34.5	25 - .1	75 + 3.0	25 +27.2
26 + .2	76 +34.9	26 - .1	76 +13.6	26 +32.4
27 + .3	77 +35.0	27 + 0	77 +27.5	27 +26.7
28 + .3	78 +34.0	28 + 0	78 +31.0	28 +36.9
29 + .3	79 +34.1	29 + 0	79 +32.6	29 +35.8
30 + .3	80 +34.5	30 + 0	80 +32.9	30 + .1
31 + .3	81 +34.7	31 + 0	81 +33.1	
32 - 1.8	82 +32.5	32 + 0	82 +33.6	Seq. 5
33 + .1	83 +31.5	33 + 0	83 +30.0	
34 + .1	84 +16.0	34 + 0	84 +34.0	
35 + .1	85 +33.9	35 + 0	85 +34.0	
36 + .1	86 +34.1	36 - .6	86 +34.1	
37 + .1	87 +34.5	37 + 0	87 +32.3	
38 + .1	88 + 4.4	38 - .1	88 +34.4	
39 - 1.9	89 +30.1	39 - .1	89 +34.3	
40 - .1	90 +33.0	40 - .1	90 +34.3	
41 - .1	91 +33.4	41 - .1	91 +34.3	
42 - .1	92 + 3.7	42 - .1	92 +30.6	
43 - .1	93 +34.3	43 - .1	93 +32.0	
44 + .2	94 +34.4	44 - .1	94 +32.7	
45 + .2	95 +33.7	45 - .1	95 +33.0	
46 + .2	96 +33.8	46 - .1	96 +33.3	
47 + .3	97 +27.1	47 - .1	97 +33.5	
48 + .3	98 + 2.5	48 - .1	98 +34.2	
49 + .3	99 + 2.5	49 - .1	99 +34.7	
50 + .3	100 + .1	50 - .1	100 + .2	

2180 .10 60° .05 0 10.0 -2.5° 1.048 2021.2 .002235

a) 1 + 0	51 + .2	b) 1 - .1	51 + .1	c) 1 + .1
2 + 0	52 + 2.4	2 - .1	52 + 2.6	2 +26.5
3 + 0	53 + .5	3 - .1	53 + .2	3 +26.4
4 - 4.9	54 +31.9	4 - .1	54 + 2.2	4 +26.4
5 - 1.8	55 +32.7	5 - .1	55 + 1.8	5 +26.4
6 + .1	56 +32.8	6 - .1	56 + 1.1	6 +28.8
7 + .1	57 +32.8	7 - .1	57 + 4.9	7 +29.0
8 + .1	58 +32.1	8 - .1	58 +32.2	8 +29.6
9 + .1	59 +32.0	9 - .1	59 +32.4	9 +37.3
10 + .2	60 +32.0	10 - .1	60 +32.4	10 +37.3
11 - 3.8	61 +31.9	11 - 1.4	61 +32.3	11 +26.6
12 - 1.7	62 +31.3	12 + 0	62 +32.3	12 +23.6
13 + .1	63 +31.3	13 + 0	63 +32.3	13 +23.6
14 + 0	64 +31.8	14 - .9	64 + 4.4	14 +23.2
15 + 0	65 +32.2	15 - .1	65 + 4.5	15 +24.4
16 + 0	66 +31.8	16 - .1	66 +13.8	16 +31.2
17 + 0	67 +31.7	17 - .1	67 +29.7	17 +31.4
18 - 2.9	68 +31.7	18 - .1	68 +30.3	18 +32.9
19 - 1.9	69 +31.7	19 - .1	69 +30.5	19 +37.0
20 + .1	70 +30.6	20 - .1	70 +30.5	20 + .2
21 + .1	71 +30.6	21 - .1	71 +30.5	21 +26.8
22 + 0	72 +30.5	22 - .1	72 +30.5	22 +26.2
23 + 0	73 +30.5	23 - .1	73 +30.5	23 +25.7
24 + 0	74 +30.7	24 + 2.1	74 + 6.5	24 +25.8
25 - 1.9	75 +30.8	25 - .1	75 + 9.4	25 +26.0
26 - 1.6	76 +30.9	26 - .1	76 +19.3	26 +30.4
27 + .1	77 +31.0	27 - .1	77 +25.6	27 +26.6
28 + .1	78 +32.0	28 - .1	78 +28.1	28 +35.3
29 + .1	79 +31.0	29 - .1	79 +29.0	29 +32.2
30 + .1	80 +31.0	30 - .1	80 +29.8	30 + .1
31 + .1	81 +30.9	31 - .1	81 +30.1	
32 - 2.2	82 +29.8	32 - .4	82 +30.4	Seq. 5
33 - 1.7	83 +29.5	33 + 0	83 +30.8	
34 - 1.3	84 +12.6	34 + 0	84 +30.9	
35 - 1.1	85 +29.7	35 + 0	85 +31.0	
36 + 0	86 +29.9	36 - 1.2	86 +31.1	
37 + 0	87 +30.2	37 + .1	87 +31.3	
38 + 0	88 + 7.8	38 + .1	88 +31.9	
39 - 1.6	89 +26.1	39 - .2	89 +32.0	
40 - 1.6	90 +28.0	40 - .1	90 +31.9	
41 + .1	91 +29.1	41 - .1	91 +31.9	
42 + .1	92 + 3.7	42 - .1	92 +31.9	
43 + .1	93 +30.3	43 - .1	93 +31.8	
44 + .1	94 +30.3	44 - .1	94 +31.8	
45 + .1	95 +29.5	45 - .1	95 +31.8	
46 + .1	96 +30.0	46 - .1	96 +31.8	
47 + .1	97 +24.2	47 - .1	97 +30.8	
48 + .1	98 + 2.8	48 - .1	98 +31.8	
49 + .1	99 + 2.7	49 - .1	99 +32.0	
50 + .1	100 + .1	50 - .1	100 + .2	

2211 .10 60° .03 0 10.0 -2.5° 1.049 2021.9 .002236

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .2
2 + 0	52 + 3.7	2 + 0	52 + 3.5	2 +41.4
3 + 0	53 + .6	3 + 0	53 + .5	3 +42.5
4 - 8.2	54 +43.7	4 + 0	54 + 1.9	4 +42.3
5 + .1	55 +46.7	5 - .1	55 + .1	5 +42.3
6 + .1	56 +45.8	6 - .1	56 - 1.6	6 +42.3
7 + .1	57 +46.9	7 - .1	57 - 7.6	7 +44.3
8 + .1	58 +42.8	8 - .1	58 +47.8	8 +45.5
9 + .1	59 +44.3	9 - .1	59 +45.7	9 +47.9
10 + 3.2	60 +44.5	10 - .1	60 +45.4	10 +49.6
11 - 7.8	61 +44.7	11 - 3.5	61 +42.8	11 +45.0
12 + 0	62 +43.7	12 + .1	62 +44.2	12 +44.7
13 + 0	63 +44.6	13 + .1	63 +44.5	13 +44.7
14 + 0	64 +46.3	14 - 2.2	64 + 2.6	14 +42.8
15 + 0	65 +46.6	15 + 0	65 + 2.7	15 +42.8
16 + 0	66 +44.5	16 + 0	66 +16.6	16 +46.8
17 + 0	67 +44.7	17 + 0	67 +43.6	17 +48.0
18 - 6.0	68 +45.0	18 + 0	68 +43.9	18 +49.6
19 - 1.5	69 +45.1	19 + 0	69 +43.4	19 +52.0
20 + .1	70 +44.0	20 + 0	70 +43.4	20 + .4
21 + .1	71 +44.0	21 + 0	71 +43.4	21 +45.4
22 + .1	72 +44.0	22 + 0	72 +43.4	22 +45.9
23 + .1	73 +44.0	23 + .2	73 +43.4	23 +46.0
24 + .1	74 +45.0	24 + 1.8	74 + 5.4	24 +46.0
25 - 3.3	75 +45.2	25 + .4	75 +11.6	25 +45.5
26 - 1.3	76 +45.3	26 + .4	76 +27.6	26 +46.5
27 - 1.2	77 +45.4	27 + .4	77 +37.9	27 +44.6
28 + 0	78 +45.4	28 + .5	78 +40.7	28 +49.7
29 + 0	79 +45.3	29 + .5	79 +42.4	29 +48.1
30 + 0	80 +45.3	30 + .5	80 +43.0	30 + .2
31 + 0	81 +45.3	31 + .5	81 +43.2	
32 - 2.6	82 +42.1	32 + .1	82 + 3.5	
33 - 1.8	83 +43.2	33 + .1	83 +43.7	
34 - 1.5	84 +20.5	34 + .1	84 +43.8	
35 + 0	85 +44.1	35 - .3	85 +44.0	
36 + 0	86 +44.3	36 - 1.2	86 +44.1	
37 + 0	87 +44.8	37 - 1.3	87 +46.5	
38 + 0	88 + 7.3	38 + .7	88 +46.6	
39 - 2.4	89 +40.5	39 + .7	89 +42.9	
40 - 1.8	90 +43.1	40 + .7	90 +43.3	
41 - 1.2	91 +44.0	41 + 0	91 +43.7	
42 + 0	92 + 4.7	42 + 0	92 +47.1	
43 + 0	93 +44.5	43 + 0	93 +41.9	
44 + 0	94 +44.6	44 + 0	94 +42.7	
45 + 0	95 +41.9	45 + 0	95 +43.1	
46 + 0	96 +44.0	46 + 0	96 +43.3	
47 + 0	97 +34.1	47 - .1	97 +43.5	
48 + 0	98 + 2.3	48 - .1	98 +44.3	
49 + 0	99 + 2.5	49 - .1	99 +45.0	
50 + 0	100 + .1	50 - .1	100 + .1	

Seq. 5

2212 .10 60° .03 0 10.0 0° 1.049 2021.9 .002236

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 3.0	2 + .2	52 + 3.2	2 +47.0
3 + 0	53 + 1.3	3 + .2	53 + 1.0	3 +46.6
4 - 3.7	54 +48.1	4 + .2	54 + 2.4	4 +45.9
5 - 1.6	55 +48.7	5 + .2	55 + 3.5	5 +46.0
6 - 1.0	56 +48.4	6 + .2	56 + 4.5	6 +46.8
7 + .1	57 +49.0	7 + .2	57 +34.5	7 +48.6
8 + .1	58 +47.2	8 + .2	58 +44.4	8 +49.6
9 + .1	59 +47.2	9 + .2	59 +44.7	9 +51.7
10 + 1.9	60 +47.2	10 + .2	60 +45.2	10 +53.9
11 - 4.1	61 +47.2	11 - 1.5	61 +45.7	11 +46.9
12 - 1.3	62 +47.3	12 + 0	62 +46.8	12 +47.0
13 + .1	63 +47.3	13 + 0	63 +47.4	13 +46.8
14 + .1	64 +48.3	14 - 1.3	64 + 3.2	14 +45.6
15 + .1	65 +48.7	15 + 0	65 + 3.2	15 +45.8
16 + .1	66 +48.5	16 + 0	66 +18.4	16 +49.0
17 + .1	67 +47.9	17 - .1	67 +41.5	17 +50.2
18 - 3.8	68 +47.8	18 - .1	68 +44.4	18 +51.6
19 - 1.3	69 +47.8	19 - .1	69 +44.9	19 +54.5
20 + .1	70 +46.1	20 - .1	70 +45.3	20 + .1
21 + .1	71 +46.1	21 - .1	71 +45.7	21 +45.8
22 + .1	72 +46.3	22 - .1	72 +45.9	22 +45.7
23 + .1	73 +46.6	23 - .1	73 +46.2	23 +45.8
24 + .1	74 +47.0	24 - .1	74 + 2.6	24 +45.8
25 - 3.5	75 +47.4	25 - .1	75 + 2.1	25 +45.5
26 - 1.0	76 +47.8	26 - .1	76 +13.0	26 +48.3
27 - .8	77 +48.0	27 - .1	77 +39.5	27 +41.7
28 - .6	78 +46.7	28 - .1	78 +43.6	28 +50.8
29 - .5	79 +47.1	29 - .1	79 +44.8	29 +44.3
30 - ..	80 +47.4	30 - .1	80 +45.7	30 + .1
31 - .3	81 +47.6	31 - .1	81 +46.2	
32 - 4.2	82 +45.3	32 - .1	82 +46.7	Seq. 5
33 - 1.0	83 +44.4	33 - .1	83 +47.0	
34 - .9	84 +22.4	34 - .1	84 +47.2	
35 - .7	85 +46.7	35 - .1	85 +47.3	
36 + .1	86 +47.0	36 - 1.0	86 +47.3	
37 + .1	87 +47.4	37 + 0	87 +43.7	
38 + .1	88 + 2.8	38 - .1	88 +47.9	
39 - 4.2	89 +42.5	39 - .1	89 +47.1	
40 - 1.5	90 +45.9	40 - .1	90 +47.1	
41 + .1	91 +46.6	41 - .1	91 +47.0	
42 + .1	92 + 5.5	42 - .1	92 +43.9	
43 + .1	93 +47.3	43 - .1	93 +45.5	
44 + .1	94 +47.4	44 - .1	94 +46.1	
45 + .1	95 +44.3	45 - .1	95 +46.3	
46 + 0	96 +46.5	46 - .1	96 +46.6	
47 + 0	97 +36.1	47 - .1	97 +46.7	
48 + 0	98 + 3.2	48 - .1	98 +47.4	
49 + 0	99 + 3.2	49 - .1	99 +47.9	
50 + 0	100 + .1	50 - .1	100 + .1	

2213 .10 60° .03 0 10.0 +2.5° 1.049 2021.9 .002236

a) 1 - .1	51 + .1	b) 1 + .1	51 + .1	c) 1 + .1
2 - .1	52 + 3.0	2 + 0	52 + 2.6	2 +46.6
3 - .1	53 + 1.9	3 + 0	53 + 1.1	3 +46.7
4 - 2.7	54 +46.9	4 + 0	54 + 6.5	4 +46.7
5 - 1.7	55 +46.1	5 + 0	55 +15.1	5 +46.7
6 - .9	56 +45.6	6 + 0	56 +18.2	6 +46.7
7 - .7	57 +46.0	7 + 0	57 +36.1	7 +48.1
8 + 0	58 +45.9	8 + 0	58 +41.2	8 +49.0
9 + 0	59 +45.3	9 + .7	59 +42.0	9 +50.9
10 + .8	60 +45.3	10 + .1	60 +42.5	10 +53.8
11 - 1.8	61 +45.2	11 + 4.7	61 +42.9	11 +44.6
12 - 1.6	62 +45.2	12 + 0	62 +43.4	12 +44.6
13 - 1.2	63 +45.2	13 + 0	63 +43.8	13 +44.4
14 - .1	64 +45.4	14 + .9	64 + 3.1	14 +43.6
15 - .1	65 +45.8	15 + 0	65 + 3.0	15 +43.5
16 - .1	66 +45.0	16 + 0	66 +16.2	16 +46.3
17 - .1	67 +45.0	17 + 0	67 +45.5	17 +48.0
18 - 2.6	68 +45.0	18 + 0	68 +45.6	18 +49.4
19 - 1.5	69 +44.9	19 + 0	69 +44.6	19 +51.3
20 + 0	70 +44.4	20 + 0	70 +44.1	20 + .1
21 + 0	71 +44.3	21 + 0	71 +44.0	21 +41.4
22 + 0	72 +44.3	22 + 0	72 +44.0	22 +41.1
23 + 0	73 +44.3	23 + 0	73 +44.0	23 +41.1
24 + 0	74 +43.1	24 + 1.6	74 + 1.6	24 +41.1
25 - 3.1	75 +44.2	25 + .3	75 - 1.5	25 +40.9
26 - 1.3	76 +45.0	26 + .3	76 - 5.1	26 +43.0
27 - 1.0	77 +45.2	27 + .3	77 +17.8	27 +38.1
28 + 0	78 +42.5	28 + .3	78 +46.1	28 +45.8
29 + 0	79 +44.0	29 + .3	79 +46.1	29 +41.1
30 + 0	80 +44.0	30 + .3	80 +43.2	30 + .1
31 + 0	81 +44.7	31 + .3	81 +43.6	
32 - 5.7	82 +42.6	32 + .3	82 +43.9	Seq. 5
33 - 1.2	83 +46.4	33 + .3	83 +44.2	
34 + .1	84 +22.1	34 + .3	84 +44.3	
35 + .1	85 +44.1	35 + .3	85 +44.3	
36 + .1	86 +44.5	36 + .3	86 +44.3	
37 + .1	87 +44.7	37 + .3	87 +40.4	
38 + .1	88 + 1.6	38 + .3	88 +44.8	
39 - 7.0	89 +45.5	39 + .3	89 +43.4	
40 + .1	90 +43.0	40 + .3	90 +43.4	
41 + .1	91 +43.6	41 + .1	91 +43.6	
42 + .1	92 + 5.6	42 + .1	92 +43.3	
43 + .1	93 +44.2	43 + .1	93 +43.3	
44 + .1	94 +44.5	44 + .1	94 +43.3	
45 + .1	95 +42.9	45 + .1	95 +43.3	
46 + 0	96 +44.0	46 + 0	96 +43.5	
47 + 0	97 +35.2	47 + 0	97 +43.6	
48 + 0	98 + 3.3	48 + 0	98 +44.5	
49 + 0	99 + 3.2	49 + 0	99 +45.0	
50 + 0	100 + .1	50 + 0	100 + .2	

2234 .10 60° .01 0 10.0 0° 1.049 2021.2 .002260

a) 1 + 0	51 + .2	b) 1 - .2	51 + .2	c) 1 + .1
2 + .2	52 + .2	2 - .1	52 + .2	2 + 74.6
3 + .2	53 + .2	3 - .1	53 + .2	3 + 74.1
4 - 7.2	54 - 6.9	4 - .1	54 + .2	4 + 73.5
5 - 1.6	55 - 3.0	5 - .1	55 + .2	5 + 73.7
6 + .6	56 - 1.9	6 - .1	56 + .1	6 + 74.2
7 + .6	57 - 1.6	7 - .1	57 + .1	7 + 75.3
8 + .6	58 - 1.4	8 - .1	58 + .1	8 + 75.7
9 + .6	59 - 1.3	9 - .1	59 + .1	9 + 76.8
10 + 9.5	60 + 8.7	10 - .1	60 + .1	10 + 77.3
11 - 6.9	61 - 8.4	11 - 3.5	61 - 3.2	11 + 76.1
12 - 1.5	62 - 2.7	12 - .1	62 + .2	12 + 75.7
13 + .1	63 - 1.8	13 - .1	63 + .1	13 + 75.7
14 + .1	64 + .1	14 - 4.3	64 - 4.1	14 + 74.0
15 + .1	65 + .1	15 - .1	65 + .1	15 + 74.3
16 + .1	66 + .1	16 - .1	66 + .1	16 + 74.9
17 + .1	67 + .1	17 - .1	67 + .1	17 + 75.3
18 - 8.5	68 - 9.8	18 - .1	68 + .1	18 + 76.0
19 - 1.5	69 - 1.6	19 - .1	69 + .1	19 + 77.1
20 + .1	70 + .1	20 - .1	70 + .1	20 + .1
21 + .3	71 + .1	21 - .1	71 + .1	21 + 73.7
22 + .3	72 + .1	22 - .1	72 + .1	22 + 73.9
23 + .6	73 + .1	23 - .1	73 + .1	23 + 74.0
24 + .6	74 + .1	24 - 2.3	74 - 2.2	24 + 73.9
25 - 8.0	75 - 8.2	25 + 0	75 + .1	25 + 70.4
26 - 1.4	76 - 1.9	26 - .1	76 + .1	26 + 73.0
27 + .1	77 - 1.9	27 - .1	77 + .1	27 + 65.6
28 + .1	78 + .1	28 - .2	78 + .1	28 + 75.5
29 + .1	79 + .1	29 + .2	79 + .1	29 + 65.5
30 + .1	80 + .1	30 + .2	80 + .1	30 + .1
31 + .1	81 + .1	31 + .2	81 + .1	
32 - 7.3	82 - 8.8	32 + .2	82 + .1	Seq. 5
33 - 1.1	81 - 2.1	33 + .3	83 + .1	
34 + .1	84 + .1	34 + .3	84 + .1	
35 + .2	85 + .1	35 + .2	85 + .1	
36 + .2	86 + .1	36 - .8	86 - .8	
37 + .2	87 + .1	37 + .1	87 + .2	
38 + .2	88 + .1	38 + .1	88 + .1	
39 - 7.4	89 - 8.4	39 + .1	89 + .1	
40 - 1.2	90 - 1.9	40 + .1	90 + .1	
41 + .1	91 - 1.6	41 + .1	91 + .1	
42 + .1	92 + .1	42 + .1	92 + .1	
43 + .1	93 + .1	43 + .1	93 + .1	
44 + .1	94 + .1	44 + .1	94 + .1	
45 + .1	95 + .1	45 + .1	95 + .1	
46 + .1	96 + .1	46 - .1	96 + .1	
47 + .1	97 + .1	47 - .1	97 + .1	
48 + .1	98 + .1	48 - .1	98 + .1	
49 + .1	99 + .1	49 - .1	99 + .1	
50 + .1	100 + .1	50 - .1	100 + .1	

2255^a .10 30° .25 0 10.0 +2.5° 1.049 2050.9 .002283

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 4.3	2 + 0	52 + 4.0	2 + 1.1
3 + 0	53 + .8	3 + 0	53 + .8	3 - 2.7
4 + 0	54 + 11.0	4 + 0	54 + 6.0	4 - 2.7
5 - .1	55 + 9.7	5 + 0	55 + 6.0	5 - 2.7
6 - .1	56 + 8.3	6 + 0	56 + 5.0	6 - 2.6
7 - .1	57 + 9.7	7 + 0	57 + 5.3	7 + 14.4
8 - .1	58 + 8.0	8 + 0	58 + 5.4	8 + 20.7
9 - .1	59 + 5.7	9 + 0	59 + 3.2	9 + 2.1
10 + .5	60 + 6.0	10 + 0	60 + 3.2	10 + 2.4
11 - .1	61 + 6.9	11 + 2.5	61 + 3.2	11 + 1.9
12 - .1	62 + 7.0	12 - .1	62 + 4.5	12 - .6
13 - .1	63 + 4.5	13 - .1	63 + 5.0	13 - .9
14 - .1	64 + 7.5	14 + 1.1	64 + 4.8	14 - 2.2
15 - .1	65 + 9.4	15 + 0	65 + 4.9	15 - 2.3
16 - .1	66 + 7.0	16 - .1	66 + 5.2	16 + 13.4
17 - .1	67 + 2.9	17 - .1	67 + 5.3	17 + .7
18 - .1	68 + 5.0	18 - .1	68 + 6.3	18 + .6
19 - .1	69 + 6.8	19 - .1	69 + 7.7	19 + .8
20 - .1	70 + 3.7	20 - .1	70 + 7.9	20 + .1
21 - .1	71 + 1.9	21 - .1	71 + 8.0	21 + .9
22 - .1	72 + 2.9	22 - .1	72 + 6.6	22 + .1
23 - .1	73 + 6.6	23 - .1	73 + 6.3	23 + .1
24 - .1	74 + 5.5	24 - .1	74 + 2.9	24 + .1
25 - .1	75 + 3.9	25 - .1	75 + 3.1	25 + .1
26 - .1	76 + 5.4	26 - .1	76 + 3.5	26 + 10.2
27 - .1	77 + 7.2	27 - .1	77 + 3.7	27 + .1
28 - .1	78 + 4.1	28 - .1	78 + 4.0	28 + .1
29 - .1	79 + 2.4	29 - .1	79 + 6.0	29 + .5
30 - .1	80 + 4.1	30 - .1	80 + 9.4	30 + .1
31 - .1	81 + 7.1	31 - .1	81 + 10.5	
32 - .1	82 + 8.7	32 - .1	82 + 10.6	Seq. 5
33 - .1	83 + 4.3	33 - .1	83 + 8.6	
34 - .1	84 + 3.5	34 - .1	84 + 6.7	
35 - .1	85 + 8.4	35 - .1	85 + 7.3	
36 - .1	86 + 5.0	36 - .1	86 + 7.7	
37 - .1	87 + 6.8	37 - .1	87 + 7.8	
38 - .1	88 + 3.2	38 - .1	88 + 5.5	
39 - .1	89 + 3.8	39 - .9	89 + 4.2	
40 - .1	90 + 8.6	40 - 0	90 + 5.4	
41 - .1	91 + 8.7	41 - .1	91 + 6.7	
42 - .1	92 + 2.1	42 - .1	92 + 7.4	
43 - .1	93 + 6.8	43 - .1	93 + 7.6	
44 - .1	94 + 5.4	44 - .1	94 + 3.0	
45 - .1	95 + 5.5	45 - .1	95 + 4.0	
46 - .1	96 + 6.8	46 - .1	96 + 5.9	
47 - .1	97 + 5.1	47 - .1	97 + 5.9	
48 - .1	98 + 2.4	48 - .1	98 + 7.7	
49 - .1	99 + 2.7	49 - .1	99 + 8.5	
50 - .1	100 + .1	50 - .1	100 + .1	

2256 .10 30° .25 0 10.0 0° 1.048 2050.9 .002283

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 3.7	2 + 0	52 + 3.4	2 + .3
3 + 0	53 + 2.2	3 + 0	53 + 1.5	3 - 1.5
4 + 0	54 + 8.3	4 + 0	54 + 4.3	4 + .2
5 + 0	55 + 7.5	5 + 0	55 + 5.2	5 + .2
6 + 0	56 + 6.6	6 + 0	56 + 5.3	6 + .2
7 + 0	57 + 9.0	7 + 0	57 + 6.3	7 + 8.7
8 + 0	58 + 6.6	8 + 0	58 + 7.4	8 + 15.3
9 + 0	59 + 4.7	9 + 0	59 + 8.2	9 + 1.8
10 + 1.5	60 + 5.2	10 + 0	60 + 8.9	10 + 1.7
11 + 0	61 + 6.4	11 + .6	61 + 8.9	11 + 1.2
12 + 0	62 + 6.8	12 + .1	62 + 8.6	12 + .4
13 + 0	63 + 6.6	13 + 0	63 + 8.1	13 - 1.0
14 + 0	64 + 7.8	14 + 0	64 + 6.6	14 - 2.4
15 + 0	65 + 9.2	15 + 0	65 + 6.6	15 - 2.5
16 + 0	66 + 9.1	16 + 0	66 + 6.6	16 + 11.9
17 + 0	67 + 6.7	17 + 0	67 + 6.6	17 + .3
18 + 0	68 + 6.7	18 + 0	68 + 7.6	18 + .3
19 + 0	69 + 7.0	19 + 0	69 + 8.2	19 + 4.9
20 + 0	70 + 5.9	20 + 0	70 + 7.5	20 + .1
21 + 0	71 + 5.5	21 + 0	71 + 5.1	21 + .1
22 + 0	72 + 5.5	22 + 0	72 + 4.7	22 + .1
23 + 0	73 + 6.1	23 + 0	73 + 4.8	23 - 3.6
24 + 0	74 + 7.1	24 + 1.1	74 + 4.8	24 - 3.6
25 + 0	75 + 7.1	25 + 0	75 + 4.8	25 - 3.7
26 + 0	76 + 7.2	26 + 0	76 + 5.3	26 + 12.9
27 + 0	77 + 7.4	27 + 0	77 + 6.2	27 + .2
28 + 0	78 + 5.9	28 + 0	78 + 8.4	28 + .2
29 + 0	79 + 5.8	29 + 0	79 + 9.3	29 + .2
30 + 0	80 + 6.0	30 + 0	80 + 9.5	30 + .1
31 + 0	81 + 6.8	31 + 0	81 + 7.3	
32 + 0	82 + 7.3	32 + 0	82 + 7.2	
33 + 0	83 + 7.5	33 + 0	83 + 7.2	
34 + 0	84 + 3.0	34 + 0	84 + 7.2	
35 + 3.0	85 + 4.4	35 + 0	85 + 7.2	
36 + 0	86 + 5.6	36 + 0	86 + 7.2	
37 + 0	87 + 6.7	37 + 0	87 + 7.4	
38 + 0	88 + 4.4	38 + 0	88 + 7.5	
39 + 1.5	89 + 6.3	39 + .6	89 + 8.7	
40 + 0	90 + 7.7	40 + .1	90 + 5.5	
41 + 0	91 + 4.8	41 + 0	91 + 6.0	
42 + 0	92 + 2.7	42 + 0	92 + 7.5	
43 + 0	93 + 5.9	43 + 0	93 + 7.6	
44 + 0	94 + 6.1	44 + 0	94 + 6.1	
45 + 0	95 + 5.4	45 + 0	95 + 6.1	
46 + 0	96 + 6.1	46 + 0	96 + 6.1	
47 + 0	97 + 5.7	47 + 0	97 + 6.1	
48 + 0	98 + 2.7	48 + 0	98 + 7.1	
49 + 0	99 + 2.7	49 + 0	99 + 8.1	
50 + 0	100 + .1	50 + 0	100 + .2	

Seq. 5

2257 .10 30° .25 0 10.0 -2.5° 1.049 2050.9 .002283

a) 1 + .1	51 + .2	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 + 3.9	2 + 0	52 + 2.6	2 + 1.7
3 + 0	53 + .7	3 + 0	53 + 1.1	3 + .1
4 + 0	54 + 6.7	4 + 0	54 + 2.6	4 + .1
5 + 0	55 + 5.2	5 + 0	55 + 3.4	5 + .1
6 + 0	56 + 5.7	6 + 0	56 + 3.0	6 + .1
7 + 0	57 + 9.5	7 + 0	57 + 3.4	7 + 7.6
8 + 0	58 + 5.8	8 + 0	58 + 3.7	8 + 11.7
9 + 0	59 + 3.2	9 + 0	59 + 4.0	9 + 2.5
10 + .6	60 + 4.0	10 + 0	60 + 5.1	10 + 2.8
11 + 0	61 + 6.4	11 + 0	61 + 8.4	11 + .2
12 + 0	62 + 6.5	12 + 0	62 + 9.7	12 + .2
13 + 0	63 + 4.9	13 + 0	63 + 9.9	13 + .2
14 + 0	64 + 6.0	14 + 0	64 + 4.7	14 + .7
15 + 0	65 + 9.5	15 + 0	65 + 4.7	15 + .7
16 + 0	66 + 8.8	16 + 0	66 + 4.7	16 + 12.1
17 + 0	67 + 4.7	17 + 0	67 + 4.7	17 + 1.7
18 + 0	68 + 5.2	18 + 0	68 + 5.0	18 + 1.6
19 + 0	69 + 6.5	19 + 0	69 + 6.0	19 + 2.2
20 + 0	70 + 5.9	20 + 0	70 + 7.0	20 + 1.5
21 + 0	71 + 3.0	21 + 0	71 + 7.3	21 + 1.9
22 + 0	72 + 3.9	22 + 0	72 + 6.6	22 + .8
23 + 0	73 + 6.2	23 + 0	73 + 5.2	23 + 1.4
24 + 0	74 + 9.1	24 + 1.4	74 + 5.1	24 + 1.7
25 + 0	75 + 9.0	25 + 0	75 + 5.0	25 + .8
26 + 0	76 + 8.9	26 + 0	76 + 5.0	26 + 17.7
27 + 0	77 + 8.9	27 + 0	77 + 4.4	27 + .1
28 + 0	78 + 8.9	28 + 0	78 + 4.3	28 + .1
29 + 0	79 + 8.4	29 + 0	79 + 4.3	29 + 1.0
30 + 0	80 + 8.4	30 + .6	80 + 4.3	30 + .1
31 + 0	81 + 8.4	31 + 0	81 + 4.3	
32 + 0	82 + 8.4	32 + 0	82 + 4.2	Seq. 5
33 + 0	83 + 8.5	33 + 0	83 + 4.6	
34 + 0	84 + 3.3	34 + 0	84 + 5.6	
35 + 0	85 + 4.6	35 + 0	85 + 5.6	
36 + 0	86 + 5.6	36 + 0	86 + 6.2	
37 + 0	87 + 6.7	37 + .4	87 + 5.3	
38 + 0	88 + 7.4	38 + .6	88 + 10.5	
39 + 1.7	89 + 7.4	39 + .9	89 + 10.0	
40 + 0	90 + 1.7	40 + 0	90 + 6.5	
41 + 0	91 + 2.9	41 + 0	91 + 6.5	
42 + 0	92 + 3.0	42 + 0	92 + 5.8	
43 + 0	93 + 7.4	43 + 0	93 + 7.9	
44 + 0	94 + 7.1	44 + 0	94 + 6.9	
45 + 0	95 + 7.1	45 + 0	95 + 6.5	
46 + 0	96 + 7.5	46 + 0	96 + 6.5	
47 + 0	97 + 5.4	47 + 0	97 + 6.3	
48 + 0	98 + 4.3	48 + 0	98 + 7.1	
49 + 0	99 + 4.3	49 + 0	99 + 8.4	
50 + 0	100 + .1	50 + 0	100 + .1	

2298 .10 30° .15 0 10.0 45.0° 1.049 2050.9 .002319

a) 1 + .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .2
2 + .1	52 + 5.1	2 - .1	52 + 5.1	2 + 1.7
3 + .1	53 + 1.7	3 - .1	53 + 1.8	3 + 4.8
4 + .1	54 + 13.6	4 - .1	54 + 6.7	4 + 4.3
5 + .1	55 + 10.6	5 - .1	55 + 7.0	5 + 4.0
6 + .1	56 + 9.8	6 - .1	56 + 5.6	6 + 3.1
7 + .1	57 + 11.7	7 - .1	57 + 6.8	7 + 19.8
8 + .1	58 + 10.8	8 - .1	58 + 6.6	8 + 28.2
9 + .1	59 + 7.0	9 - .1	59 + 5.7	9 + .4
10 + 1.5	60 + 7.6	10 - .1	60 + 5.7	10 + 3.1
11 + .1	61 + 9.0	11 - .5	61 + 6.3	11 + .1
12 + .1	62 + 8.2	12 - .1	62 + 7.7	12 + 1.8
13 + .1	63 + 5.4	13 - .1	63 + 8.5	13 + 2.4
14 + .1	64 + 9.3	14 - .1	64 + 5.2	14 + 2.5
15 + .1	65 + 11.8	15 - 0	65 + 5.8	15 + 2.6
16 + .1	66 + 8.6	16 - 0	66 + 6.2	16 + 12.6
17 + .1	67 + 3.9	17 - 0	67 + 6.3	17 + 1.6
18 + .1	68 + 8.7	18 - 0	68 + 6.3	18 + .2
19 + .1	69 + 9.5	19 - 0	69 + 9.6	19 + 3.1
20 + .1	70 + 5.7	20 - 0	70 + 8.9	20 + .1
21 + .1	71 + 3.0	21 - 0	71 + 8.3	21 + .6
22 + .1	72 + 6.6	22 - 0	72 + 6.4	22 + .2
23 + .1	73 + 9.2	23 - 0	73 + 6.3	23 + .2
24 + .1	74 + 4.6	24 - 0	74 + 3.5	24 + .2
25 + .1	75 + 4.9	25 - 0	75 + 3.8	25 + .1
26 + .1	76 + 10.7	26 - 0	76 + 4.0	26 + 5.9
27 + .1	77 + 10.8	27 - 0	77 + 4.0	27 + .1
28 + .1	78 + 3.5	28 - 0	78 + 4.5	28 + .1
29 + .1	79 + 3.6	29 - 0	79 + 6.7	29 + .2
30 + .1	80 + 9.6	30 - 0	80 + 9.8	30 + .2
31 + .1	81 + 10.1	31 - .1	81 + 12.9	
32 + .1	82 + 10.4	32 - .1	82 + 11.2	Seq. 5
33 + .1	83 + 5.0	33 - .1	83 + 8.0	
34 + .1	84 + 5.7	34 - .1	84 + 8.6	
35 + .1	85 + 8.5	35 - .1	85 + 9.4	
36 + .1	86 + 6.8	36 - .1	86 + 9.8	
37 + .1	87 + 9.7	37 - .1	87 + 5.5	
38 + .1	88 + 4.0	38 - .1	88 + 7.6	
39 + .1	89 + 3.6	39 - .1	89 + 4.2	
40 + .1	90 + 11.0	40 - .1	90 + 7.2	
41 + .1	91 + 10.3	41 - .1	91 + 9.4	
42 + .1	92 + 2.9	42 - .1	92 + 9.2	
43 + .1	93 + 10.0	43 - .1	93 + 7.5	
44 + .1	94 + 7.9	44 - .1	94 + 4.8	
45 + .1	95 + 7.8	45 - .1	95 + 6.7	
46 + .1	96 + 9.4	46 - .1	96 + 8.8	
47 + .1	97 + 7.5	47 - .1	97 + 6.7	
48 + .1	98 + 3.3	48 - .1	98 + 9.7	
49 + .1	99 + 3.7	49 - .1	99 + 11.0	
50 + .1	100 + .1	50 - .1	100 + .1	

2299 .10 30° .15 0 10.0 +2.5° 1.049 2050.9 .002319

a) 1 + 0	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 + 4.2	2 + 0	52 + 4.4	2 + 1.3
3 + 0	53 + .9	.3 + 0	53 + 1.2	3 + 2.2
4 + 0	54 + 12.5	4 + 0	54 + 6.6	4 + 2.3
5 + 0	55 + 11.1	5 + 0	55 + 7.2	5 + 2.3
6 + 0	56 + 9.3	6 + 0	56 + 6.5	6 + 2.3
7 + 0	57 + 10.5	7 + 0	57 + 7.8	7 + 15.4
8 + 0	58 + 10.0	8 + 0	58 + 8.0	8 + 21.9
9 + 0	59 + 7.2	9 + 0	59 + 7.2	9 + 1.8
10 + 1.3	60 + 7.4	10 + 0	60 + 7.2	10 + 2.8
11 + .1	61 + 8.3	11 + 1.2	61 + 7.3	11 + .8
12 + 0	62 + 8.5	12 + .7	62 + 7.6	12 + .7
13 + 0	63 + 7.5	13 + .7	63 + 7.8	13 + .7
14 + 0	64 + 8.9	14 + .3	64 + 4.5	14 + 1.6
15 + 0	65 + 10.8	15 + 0	65 + 5.3	15 + 1.7
16 + 0	66 + 8.9	16 + 0	66 + 5.7	16 + 14.6
17 + 0	67 + 5.8	17 + 0	67 + 5.8	17 + .9
18 + 0	68 + 7.6	18 + 0	68 + 8.6	18 + .2
19 + 0	69 + 8.5	19 + 0	69 + 10.1	19 + 3.6
20 + 0	70 + 5.8	20 + 0	70 + 10.0	20 + .1
21 + 0	71 + 5.6	21 + 0	71 + 7.7	21 + 1.6
22 + 0	72 + 6.3	22 + 0	72 + 7.2	22 + .1
23 + 0	73 + 8.3	23 + 0	73 + 7.2	23 + .8
24 + 0	74 + 7.3	24 + 0	74 + 3.2	24 + .8
25 + 0	75 + 7.0	25 + 0	75 + 3.8	25 + .8
26 + 0	76 + 9.1	26 + 0	76 + 4.0	26 + 11.3
27 + 0	77 + 10.4	27 + 0	77 + 4.6	27 + .2
28 + 0	78 + 6.1	28 + 0	78 + 5.8	28 + .2
29 + 0	79 + 5.7	29 + 0	79 + 8.7	29 + .8
30 + 0	80 + 8.4	30 + 0	80 + 13.5	30 + .1
31 + 0	81 + 9.4	31 + 0	81 + 11.0	
32 + 0	82 + 9.6	32 + 0	82 + 8.8	Seq. 5
33 + 0	83 + 5.8	33 + 0	83 + 8.2	
34 + 0	84 + 5.8	34 + 0	84 + 8.2	
35 + 0	85 + 6.6	35 + 0	85 + 8.4	
36 + 0	86 + 7.0	36 + 0	86 + 9.0	
37 + 0	87 + 9.0	37 + 0	87 + 9.2	
38 + 0	88 + 3.7	38 + 0	88 + 8.9	
39 + 0	89 + 4.8	39 + 0	89 + 7.5	
40 + 0	90 + 11.8	40 + 0	90 + 7.5	
41 + 0	91 + 8.1	41 + 0	91 + 8.3	
42 + 0	92 + 2.5	42 + 0	92 + 8.8	
43 + 0	93 + 9.0	43 + 0	93 + 8.8	
44 + 0	94 + 7.8	44 + 0	94 + 5.9	
45 + 0	95 + 7.6	45 + 0	95 + 6.1	
46 + 0	96 + 3.6	46 + 0	96 + 7.7	
47 + 0	97 + 6.6	47 + 0	97 + 7.9	
48 + 0	98 + 2.3	48 + 0	98 + 9.0	
49 + 0	99 + 2.7	49 + 0	99 + 10.3	
50 + 0	100 + .1	50 + 0	100 + .1	

2300 .10 30° .15 0 10.0 0° 1.049 2050.9 .002319

a) 1 - .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 - .1	52 + 3.5	2 + 0	52 + 3.6	2 + 2.0
3 - .1	53 + .6	3 + 0	53 + 1.2	3 + 1.0
4 - .1	54 + 9.4	4 + 0	54 + 4.6	4 + .1
5 - .1	55 + 9.7	5 + .1	55 + 5.1	5 + .1
6 - .1	56 + 9.9	6 + .2	56 + 5.0	6 + .1
7 - .1	57 + 10.4	7 + .2	57 + 6.3	7 + 11.7
8 - .1	58 + 9.6	8 + .2	58 + 8.0	8 + 18.3
9 - .1	59 + 7.7	9 + .2	59 + 9.8	9 + 3.0
10 - .8	60 + 7.7	10 + .2	60 + 11.2	10 + 3.5
11 - .1	61 + 8.3	11 + 1.1	61 + 8.3	11 + 2.9
12 - .1	62 + 8.4	12 + .1	62 + 8.7	12 + .9
13 - .1	63 + 8.6	13 + .2	63 + 8.8	13 + .4
14 - .1	64 + 9.9	14 + .8	64 + 4.6	14 + .4
15 - .1	65 + 10.6	15 + .1	65 + 5.4	15 + .4
16 - .1	66 + 10.4	16 + .2	66 + 6.0	16 + 14.7
17 - .1	67 + 8.1	17 + .2	67 + 6.5	17 + .2
18 - .1	68 + 8.3	18 + .3	68 + 9.9	18 + 1.5
19 - .1	69 + 8.5	19 + .3	69 + 10.6	19 + 3.9
20 - .1	70 + 8.2	20 + .3	70 + 8.0	20 + .1
21 - .1	71 + 7.9	21 + .2	71 + 8.0	21 + 1.1
22 - .1	72 + 7.9	22 + .2	72 + 7.3	22 + .1
23 - .1	73 + 7.9	23 + .2	73 + 7.4	23 + .8
24 - .1	74 + 8.6	24 + 1.4	74 + 3.2	24 + .9
25 - .1	75 + 8.8	25 + .6	75 + 3.9	25 + 1.0
26 - .1	76 + 9.3	26 + .3	76 + 4.9	26 + 15.1
27 - .1	77 + 9.5	27 + .3	77 + 6.2	27 + .1
28 - .1	78 + 8.3	28 + .3	78 + 9.1	28 + .1
29 - .1	79 + 8.4	29 + .3	79 + 11.7	29 + 1.0
30 - .1	80 + 8.4	30 + .3	80 + 11.1	30 + .1
31 - .1	81 + 8.8	31 + .3	81 + 7.8	
32 - .1	82 + 9.0	32 + .3	82 + 7.9	Seq. 5
33 - .1	83 + 9.0	33 + .3	83 + 8.1	
34 - .1	84 + 3.2	34 + .3	84 + 8.2	
35 - .1	85 + 6.7	35 + .3	85 + 8.3	
36 - .1	86 + 7.8	36 + .2	86 + 8.5	
37 - .1	87 + 8.2	37 + .2	87 + 8.6	
38 - .1	88 + 3.9	38 + .3	88 + 8.9	
39 - .1	89 + 6.9	39 + .3	89 + 9.9	
40 - .1	90 + 9.2	40 + .1	90 + 6.9	
41 - .1	91 + 8.4	41 + .1	91 + 7.7	
42 - .1	92 + 2.5	42 + .1	92 + 7.9	
43 - .1	93 + 8.7	43 + .1	93 + 8.9	
44 - .1	94 + 8.4	44 + .1	94 + 7.0	
45 - .1	95 + 7.6	45 + .1	95 + 7.1	
46 - .1	96 + 7.8	46 + .1	96 + 7.5	
47 - .1	97 + 6.8	47 + .1	97 + 7.7	
48 - .1	98 + 2.4	48 + .1	98 + 8.8	
49 - .1	99 + 2.5	49 + 0	99 + 9.4	
50 - .1	100 + .2	50 + 0	100 + .1	

2301 .10 30° .15 0 10.0 -2.5° 1.048 2050.9 .002319

a) 1	.1	51	.2	b) 1	0	51	.2	c) 1	.2
2	-	52	3.2	2	0	52	3.6	2	1.6
3	-	53	1.7	3	0	53	1.4	3	.1
4	-	54	7.5	4	0	54	3.7	4	.1
5	-	55	7.4	5	0	55	4.2	5	.1
6	-	56	3.8	6	.1	56	4.2	6	.1
7	-	57	10.7	7	.1	57	4.4	7	8.6
8	-	58	7.3	8	.1	58	5.0	8	13.0
9	-	59	5.6	9	.1	59	6.0	9	2.2
10	+	60	6.9	10	.1	60	8.8	10	2.6
11	-	61	8.1	11	.1	61	12.6	11	2.2
12	-	62	6.0	12	0	62	11.5	12	.1
13	-	63	6.0	13	0	63	9.2	13	3.6
14	-	64	9.3	14	0	64	5.1	14	3.4
15	-	65	10.7	15	0	65	5.1	15	1.3
16	-	66	9.7	16	.1	66	5.1	16	+15.7
17	-	67	5.4	17	.1	67	5.1	17	.1
18	-	68	7.1	18	.1	68	9.0	18	.3
19	-	69	8.0	19	.1	69	11.7	19	2.8
20	-	70	7.1	20	.1	70	10.4	20	.4
21	-	71	6.4	21	.1	71	7.4	21	1.3
22	-	72	6.4	22	.1	72	0.0	22	1.6
23	-	73	7.5	23	.1	73	5.2	23	2.1
24	-	74	9.0	24	1.5	74	7.3	24	2.2
25	-	75	8.4	25	0	75	5.6	25	2.2
26	-	76	8.5	26	.1	76	6.1	26	20.2
27	0	77	8.8	27	.1	77	6.3	27	1.4
28	0	78	9.3	28	.2	78	6.4	28	.2
29	-	79	8.9	29	.2	79	6.8	29	1.4
30	-	80	8.8	30	.2	80	7.0	30	.1
31	-	81	8.8	31	.3	81	7.0		
32	-	82	9.2	32	.3	82	7.0		
33	-	83	8.6	33	.3	83	7.0		
34	-	84	3.0	34	.3	84	7.5		
35	-	85	6.1	35	.3	85	8.6		
36	0	86	7.1	36	0	86	9.3		
37	0	87	8.3	37	.2	87	6.0		
38	0	88	5.4	38	.4	88	8.5		
39	0	89	8.3	39	.5	89	14.8		
40	0	90	5.5	40	0	90	7.0		
41	0	91	5.7	41	0	91	8.4		
42	0	92	2.8	42	0	92	6.4		
43	0	93	7.8	43	0	93	10.9		
44	0	94	7.5	44	0	94	6.9		
45	0	95	7.5	45	.1	95	7.0		
46	0	96	7.9	46	.1	96	7.9		
47	0	97	7.4	47	.1	97	7.6		
48	0	98	3.1	48	.1	98	9.2		
49	0	99	3.1	49	.1	99	10.2		
50	0	100	.1	50	.1	100	.2		

Seq. 5

2302 .10 30° .15 0 10.0 -5.0° 1.048 2050.9 .002319

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 + 3.0	2 + 0	52 + 3.3	2 + 2.3
3 + 0	53 + .3	3 + .2	53 + .6	3 + 1.5
4 + 0	54 + 4.0	4 + .2	54 + 3.2	4 + 1.5
5 + 0	55 + 4.2	5 + .2	55 + 3.8	5 + 1.5
6 - .1	56 + 9.0	6 + .2	56 + 3.6	6 + 1.5
7 - .1	57 + 10.9	7 + .2	57 + 3.6	7 + 4.8
8 - .1	58 + 7.4	8 + .3	58 + 3.6	8 + 9.5
9 + 0	59 + 2.6	9 + .3	59 + 4.3	9 + 1.4
10 + .2	60 + 5.9	10 + .3	60 + 5.9	10 + 2.3
11 + 0	61 + 8.3	11 + .3	61 + 9.7	11 + .4
12 + 0	62 + 4.1	12 + .3	62 + 10.8	12 - .1
13 + 0	63 + 3.3	13 + .3	63 + 10.7	13 - .1
14 + 0	64 + 9.4	14 + .3	64 + 3.8	14 - .1
15 + 0	65 + 10.8	15 + .3	65 + 4.0	15 - .1
16 + 0	66 + 7.4	16 + .3	66 + 4.2	16 + 13.5
17 + .1	67 + 2.7	17 + .3	67 + 4.3	17 - 1.0
18 + .1	68 + 6.0	18 + .3	68 + 5.8	18 + .2
19 + .1	69 + 8.1	19 + .3	69 + 7.9	19 + 3.0
20 + .2	70 + 6.5	20 + .3	70 + 9.5	20 + .1
21 + .2	71 + 4.6	21 + 0	71 + 9.2	21 + 2.0
22 + .2	72 + 5.0	22 + .2	72 + 4.8	22 - 2.7
23 + .2	73 + 6.9	23 + .2	73 + 4.8	23 - 3.0
24 + .2	74 + 9.6	24 + 2.2	74 + 4.8	24 - 3.1
25 + .2	75 + 7.7	25 + 0	75 + 4.8	25 - 3.1
26 + .2	76 + 8.1	26 + 0	76 + 4.8	26 + 25.9
27 + .2	77 + 8.7	27 + 0	77 + 4.8	27 - 3.8
28 + .3	78 + 9.7	28 + .1	78 + 4.8	28 - 2.9
29 + .3	79 + 7.0	29 + .2	79 + 4.8	29 + 2.9
30 + .3	80 + 7.5	30 + .6	80 + 4.8	30 + .1
31 + .3	81 + 8.0	31 + 0	81 + 5.2	
32 + .3	82 + 9.1	32 + 0	82 + 5.7	Seq. 5
33 + .3	83 + 8.5	33 + 0	83 + 6.4	
34 + .3	84 + 2.7	34 + .1	84 + 6.6	
35 + .3	85 + 4.4	35 + .1	85 + 7.4	
36 + .3	86 + 6.2	36 + 0	86 + 8.2	
37 + .3	87 + 8.4	37 + .4	87 + 3.1	
38 + .3	88 + 8.5	38 + .6	88 + 9.9	
39 + .3	89 + 7.2	39 + 1.0	89 + 11.1	
40 + .3	90 + 2.6	40 + 0	90 + 4.2	
41 + .3	91 + 5.5	41 - .1	91 + 7.0	
42 + .3	92 + 3.1	42 - .1	92 + 4.7	
43 + .3	93 + 8.4	43 - .1	93 + 9.3	
44 + .3	94 + 8.3	44 - .1	94 + 6.1	
45 + .3	95 + 8.3	45 - .1	95 + 5.7	
46 + .2	96 + 8.5	46 - .1	96 + 6.8	
47 + .2	97 + 7.2	47 - .1	97 + 6.5	
48 + .2	98 + 1.9	48 - .1	98 + 8.4	
49 + .2	99 + 2.3	49 - .1	99 + 9.5	
50 + .2	100 + .1	50 - .1	100 + .1	

2353 .10 30° .10 0 10.0 +5.0° 1.048 2048.8 .002249

a) 1 + 0	51 + .2	b) 1 + .1	51 + .1	c) 1 + .1
2 + 0	52 + 5.7	2 + .1	52 + 4.4	2 + 6.5
3 + 0	53 + 1.8	3 + .1	53 + 1.1	3 + .1
4 + 0	54 + 16.0	4 + .1	54 + 7.0	4 + .3
5 + 0	55 + 12.6	5 + .1	55 + 7.7	5 + .5
6 + 0	56 + 11.7	6 + .2	56 + 6.7	6 + .8
7 + 0	57 + 13.0	7 + .3	57 + 8.3	7 + 21.2
8 + 0	58 + 13.1	8 + .3	58 + 8.5	8 + 29.9
9 + 0	59 + 8.7	9 + .6	59 + 7.9	9 + 3.0
10 + .3	60 + 9.6	10 + .7	60 + 8.0	10 + 7.2
11 + .1	61 + 10.8	11 + 3.4	61 + 8.2	11 + 2.1
12 + .1	62 + 10.0	12 + .1	62 + 9.3	12 + .6
13 + 0	63 + 7.9	13 + .1	63 + 9.5	13 + .2
14 + 0	64 + 11.8	14 + 1.0	64 + 4.5	14 + 1.4
15 + 0	65 + 13.6	15 + .5	65 + 5.4	15 + .4
16 + 0	66 + 9.9	16 + .4	66 + 6.4	16 + 16.0
17 + 0	67 + 8.7	17 + .4	67 + 7.1	17 + .3
18 + 0	68 + 10.0	18 + .4	68 + 9.8	18 + 2.0
19 + 0	69 + 11.3	19 + .4	69 + 10.8	19 + 6.7
20 + 0	70 + 7.5	20 + .4	70 + 10.0	20 + .5
21 + 0	71 + 7.3	21 + .4	71 + 8.8	21 + 3.0
22 + 0	72 + 9.2	22 + .4	72 + 8.2	22 + 3.0
23 + 0	73 + 11.4	23 + .4	73 + 8.4	23 + 2.3
24 + 0	74 + 6.6	24 + .4	74 + 3.0	24 + 2.2
25 + 0	75 + 11.8	25 + .4	75 + 3.0	25 + 2.2
26 + 0	76 + 13.6	26 + .4	76 + 2.9	26 + 8.6
27 + 0	77 + 13.0	27 + .4	77 + 3.1	27 + 1.5
28 + 0	78 + 6.6	28 + .4	78 + 5.8	28 + 1.8
29 + 0	79 + 9.7	29 + .4	79 + 8.9	29 + 2.1
30 + 0	80 + 12.0	30 + .1	80 + 15.0	30 + .1
31 + 0	81 + 12.4	31 + .2	81 + 12.9	
32 - .7	82 + 12.5	32 + .2	82 + 10.2	Seq. 5
33 + .1	83 + 6.2	33 + .3	83 + 10.4	
34 + .1	84 + 7.9	34 + .3	84 + 10.4	
35 + .1	85 + 8.7	35 + .3	85 + 10.9	
36 + .1	86 + 9.9	36 + .3	86 + 11.3	
37 + .1	87 + 12.3	37 + .3	87 + 7.5	
38 + .1	88 + 4.5	38 + .3	88 + 10.1	
39 - 1.7	89 + 5.4	39 + .3	89 + 7.3	
40 + .1	90 + 15.2	40 + .3	90 + 9.2	
41 + .1	91 + 10.8	41 + 0	91 + 10.7	
42 + .1	92 + 3.5	42 + 0	92 + 10.9	
43 + .1	93 + 12.3	43 + 0	93 + 8.1	
44 + .1	94 + 11.4	44 + 0	94 + 7.5	
45 + .1	95 + 10.5	45 + 0	95 + 8.8	
46 + .1	96 + 11.8	46 + 0	96 + 10.7	
47 + .1	97 + 8.9	47 + 0	97 + 9.0	
48 + .1	98 + 3.7	48 + 0	98 + 12.0	
49 + .1	99 + 3.9	49 + 0	99 + 13.2	
50 + .1	100 + .2	50 + 0	100 + .2	

2354 .10 30° .10 0 10.0 +2.5° 1.048 2048.8 .002249

a) 1 - .1	51 + .1	b) 1 - .1	51 + .2	c) 1 + .1
2 - .1	52 + 4.3	2 - .1	52 + 4.7	2 + 3.0
3 - .1	53 + .8	3 - .1	53 + 1.6	3 + .1
4 - .1	54 + 15.1	4 - .1	54 + 7.0	4 + .1
5 - .1	55 + 13.5	5 - .1	55 + 8.1	5 + .2
6 - .1	56 + 11.9	6 - .1	56 + 7.6	6 + .2
7 - .1	57 + 13.0	7 - .1	57 + 10.5	7 + 17.0
8 - .1	58 + 12.9	8 - .1	58 + 10.9	8 + 24.1
9 - .1	59 + 10.1	9 - .1	59 + 11.0	9 + 3.6
10 + .7	60 + 10.2	10 - .1	60 + 11.0	10 + 5.2
11 - .1	61 + 10.8	11 + 1.4	61 + 11.0	11 + 3.5
12 - .1	62 + 10.9	12 - .1	62 + 11.6	12 + 1.5
13 - .1	63 + 10.6	13 - .1	63 + 11.7	13 + .2
14 - .1	64 + 12.0	14 + .2	64 + 5.2	14 + .2
15 - .1	65 + 13.1	15 - .1	65 + 6.1	15 + .2
16 - .1	66 + 11.1	16 - .1	66 + 7.9	16 + 14.9
17 - .1	67 + 9.8	17 - .1	67 + 8.4	17 + 1.3
18 - .1	68 + 11.2	18 - .1	68 + 11.5	18 + 2.2
19 - .1	69 + 11.4	19 - .1	69 + 12.8	19 + 5.1
20 - .1	70 + 8.9	20 - .1	70 + 11.0	20 + .1
21 - .1	71 + 8.8	21 - .1	71 + 10.0	21 + 2.7
22 - .1	72 + 9.3	22 - .1	72 + 10.1	22 + 2.4
23 - .1	73 + 10.7	23 - .1	73 + 10.6	23 + 1.7
24 - .1	74 + 10.2	24 - .1	74 + 4.0	24 + 1.6
25 - .1	75 + 10.8	25 - .1	75 + 4.2	25 + 1.6
26 - .1	76 + 12.7	26 - .1	76 + 4.6	26 + 12.3
27 - .1	77 + 12.9	27 - .1	77 + 5.9	27 + 1.8
28 - .1	78 + 8.8	28 - .1	78 + 8.5	28 + 2.1
29 - .1	79 + 9.8	29 - .1	79 + 12.0	29 + 2.9
30 - .1	80 + 11.5	30 - .1	80 + 17.5	30 + .1
31 - .1	81 + 11.9	31 - .1	81 + 12.3	
32 - .1	82 + 12.1	32 - .1	82 + 1.3	Seq. 3
33 - .1	83 + 7.6	33 - .1	83 + 11.9	
34 - .1	84 + 7.3	34 - .1	84 + 11.0	
35 - .1	85 + 9.5	35 - .1	85 + 11.8	
36 - .1	86 + 10.1	36 - .1	86 + 12.1	
37 - .1	87 + 11.7	37 - .1	87 + 10.9	
38 - .1	88 + 3.7	38 - .1	88 + 12.6	
39 - .1	89 + 6.4	39 - .1	89 + 10.9	
40 - .1	90 + 14.6	40 - .1	90 + 11.1	
41 - .1	91 + 10.1	41 - .1	91 + 11.4	
42 - .1	92 + 2.7	42 - .1	92 + 11.6	
43 - .1	93 + 11.9	43 - .1	93 + 11.7	
44 - .1	94 + 11.4	44 - .1	94 + 9.4	
45 - .1	95 + 10.5	45 - .1	95 + 10.2	
46 - .1	96 + 11.1	46 - .1	96 + 11.0	
47 - .1	97 + 8.5	47 - .1	97 + 11.2	
48 - .1	98 + 2.7	48 - .1	98 + 12.8	
49 - .1	99 + 3.0	49 - .1	99 + 13.5	
50 - .1	100 + .1	50 - .1	100 + .2	

2355 .10 30° .10 0 10.0 0° 1.048 2048.8 .002249

a) 1 + .1	51 + .1	b) 1 + .1	51 + .1	c) 1 + .2
2 + .1	52 + 4.2	2 + .1	52 + 4.2	2 + 3.1
3 + .1	53 + 1.1	3 + .1	53 + 1.0	3 + .1
4 + .1	54 + 13.9	4 + .1	54 + 4.8	4 + .1
5 + .1	55 + 13.9	5 + 0	55 + 5.3	5 + .3
6 + .1	56 + 13.9	6 + 0	56 + 4.9	6 + .5
7 + .1	57 + 13.9	7 + 0	57 + 7.5	7 + 13.8
8 + .1	58 + 12.0	8 + 0	58 + 10.0	8 + 18.5
9 + .1	59 + 11.0	9 + 0	59 + 3.4	9 + 3.3
10 + .6	60 + 11.4	10 + 0	60 + 14.3	10 + 4.1
11 + 0	61 + 11.5	11 + 0	61 + 10.1	11 + 3.6
12 + 0	62 + 11.6	12 + 0	62 + 11.2	12 + 1.1
13 + 0	63 + 11.7	13 + 0	63 + 11.7	13 + .1
14 + 0	64 + 13.4	14 + 0	64 + 4.5	14 + .1
15 + .1	65 + 13.8	15 + 0	65 + 5.7	15 + .2
16 + .1	66 + 13.3	16 + 0	66 + 6.6	16 + 14.8
17 + 0	67 + 10.8	17 + 0	67 + 8.4	17 + 1.2
18 + 0	68 + 12.3	18 + 0	68 + 12.9	18 + 1.6
19 + .1	69 + 12.4	19 + 0	69 + 13.6	19 + 6.0
20 + 0	70 + 10.6	20 + 0	70 + 11.1	20 + .1
21 + .1	71 + 10.8	21 + 0	71 + 10.3	21 + 2.3
22 + 0	72 + 10.9	22 + 0	72 + 9.9	22 + 1.7
23 + 0	73 + 11.1	23 + 0	73 + 10.7	23 + .1
24 + 0	74 + 11.8	24 + .2	74 + 3.5	24 + .1
25 + 0	75 + 12.0	25 + .1	75 + 4.5	25 + .1
26 + 0	76 + 12.7	26 + .1	76 + 5.9	26 + 17.0
27 + 0	77 + 12.9	27 + .1	77 + 8.4	27 + .8
28 + 0	78 + 11.0	28 + .1	78 + 10.5	28 + .8
29 + .1	79 + 11.6	29 + .1	79 + 14.1	29 + 2.3
30 + .1	80 + 12.2	30 + .1	80 + 12.5	30 + .1
31 + .1	81 + 12.0	31 + 0	81 + 10.8	
32 + .1	82 + 12.1	32 + 0	82 + 11.3	Seq. 5
33 + .1	83 + 10.1	33 + 0	83 + 11.7	
34 + .1	84 + 5.7	34 + 0	84 + 11.8	
35 + .1	85 + 10.9	35 + 0	85 + 11.8	
36 + .1	86 + 11.7	36 + 0	86 + 11.9	
37 + .1	87 + 12.1	37 + 0	87 + 10.6	
38 + .1	88 + 4.8	38 + 0	88 + 13.0	
39 + .1	89 + 9.5	39 + 0	89 + 12.8	
40 + .1	90 + 12.3	40 + 0	90 + 10.4	
41 + .1	91 + 11.4	41 + 0	91 + 11.4	
42 + .1	92 + 2.8	42 + 0	92 + 9.9	
43 + .1	93 + 12.0	43 + 0	93 + 12.0	
44 + .1	94 + 11.4	44 + 0	94 + 10.4	
45 + .1	95 + 11.0	45 + 0	95 + 10.6	
46 + .1	96 + 11.5	46 + 0	96 + 11.0	
47 + .1	97 + 9.0	47 + 0	97 + 11.2	
48 + .1	98 + 3.0	48 + 0	98 + 12.7	
49 + .1	99 + 3.3	49 + 0	99 + 13.0	
50 + .1	100 + .1	50 + 0	100 + .1	

2356 .10 30° .10 0 10.0 -2.5° 1.048 2048.8 .002249

a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + .1	52 + 5.0	2 - .1	52 + 3.7	2 + 3.7
3 + .1	53 + .8	3 - .1	53 + .9	3 + .4
4 + .1	54 + 11.3	4 - .1	54 + 3.9	4 + .6
5 + .1	55 + 12.2	5 - .1	55 + 4.2	5 + .7
6 + .1	56 + 13.1	6 - .1	56 + 3.1	6 + .7
7 + .1	57 + 14.3	7 - .1	57 + 4.9	7 + 10.5
8 + .1	58 + 10.4	8 - .1	58 + 6.7	8 + 15.2
9 + .1	59 + 9.9	9 - .1	59 + 9.0	9 + 2.2
10 + .1	60 + 10.9	10 - .1	60 + 13.6	10 + 3.9
11 + .3	61 + 11.8	11 - .1	61 + 13.7	11 + 2.7
12 + 0	62 + 9.8	12 - .1	62 + 11.7	12 + .1
13 + .3	63 + 10.7	13 - .1	63 + 11.7	13 + .1
14 + .3	64 + 13.9	14 - .1	64 + 4.4	14 + .1
15 + 0	65 + 14.2	15 - .1	65 + 4.9	15 + .1
16 + 0	66 + 12.6	16 - .1	66 + 5.7	16 + 15.0
17 + 0	67 + 8.7	17 - .1	67 + 7.0	17 + 1.8
18 + 0	68 + 10.9	18 - .1	68 + 11.0	18 + 1.8
19 + 0	69 + 11.5	19 - .1	69 + 14.1	19 + 4.0
20 + 0	70 + 9.8	20 - .1	70 + 12.1	20 + .1
21 + 0	71 + 9.8	21 - .1	71 + 9.7	21 + 2.3
22 + 0	72 + 9.9	22 - .1	72 + 7.9	22 + .1
23 + 0	73 + 10.7	23 - .1	73 + 8.8	23 + .1
24 + .4	74 + 12.1	24 - .1	74 + 4.4	24 + .1
25 + .3	75 + 12.2	25 - .1	75 + 5.9	25 + .1
26 + .3	76 + 12.2	26 - .1	76 + 7.1	26 + 20.6
27 + .3	77 + 12.0	27 - .1	77 + 8.5	27 + .1
28 + .3	78 + 12.7	28 - .1	78 + 9.1	28 + .2
29 + .3	79 + 11.3	29 - .1	79 + 9.9	29 + 2.2
30 + .5	80 + 11.4	30 - .1	80 + 10.3	30 + .1
31 + .2	81 + 11.4	31 - .1	81 + 10.5	
32 + .2	82 + 12.1	32 - .1	82 + 10.5	Seq. 5
33 + .2	83 + 9.1	33 - .1	83 + 10.6	
34 + .2	84 + 4.4	34 - .1	84 + 11.1	
35 + .2	85 + 10.3	35 - .1	85 + 11.7	
36 + .2	86 + 10.5	36 - .1	86 + 10.9	
37 + .2	87 + 11.4	37 - .1	87 + 7.0	
38 + .2	88 + 5.4	38 - .1	88 + 10.5	
39 + .3	89 + 11.0	39 - .1	99 + 19.2	
40 + 0	90 + 9.5	40 - .1	90 + 10.5	
41 + 0	91 + 10.1	41 - .1	91 + 10.3	
42 + 0	92 + 2.6	42 - .1	92 + 7.5	
43 + 0	93 + 11.4	43 - .1	93 + 14.1	
44 + 0	94 + 10.0	44 - .1	94 + 9.9	
45 + 0	95 + 9.9	45 - .1	95 + 10.5	
46 + 0	96 + 10.7	46 - .1	96 + 1.1	
47 + 0	97 + 8.7	47 - .1	97 + 11.1	
48 + 0	98 + 2.7	48 - .1	98 + 12.3	
49 + 0	99 + 3.1	49 - .1	99 + 13.0	
50 + 0	100 + .1	50 - .1	100 + .2	

2357 .10. 30° .10 0 10.0 -5.0° 1.048 2046.8 .002249

a) 1 + 0	51 + .2	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 4.1	2 + 0	52 + 4.1	2 + 3.5
3 + 0	53 + .6	3 + 0	53 + 1.6	3 + 1.2
4 - 3.3	54 + 8.1	4 + 0	54 + 3.9	4 + 1.7
5 - .1	55 + 11.1	5 + 0	55 + 4.1	5 + 1.9
6 - .1	56 + 12.6	6 - .1	56 + 3.2	6 + 2.0
7 - .1	57 + 13.4	7 - .1	57 + 3.3	7 + 6.6
8 - .1	58 + 7.8	8 - .1	58 + 4.7	8 + 11.5
9 - .1	59 + 7.9	9 - .1	59 + 7.6	9 + 4.0
10 - .1	60 + 9.8	10 - .1	60 + 9.7	10 + 4.6
11 + 0	61 + 10.6	11 - .1	61 + 15.9	11 + 3.8
12 + 0	62 + 5.9	12 - .1	62 + 12.3	12 + .1
13 + 0	63 + 9.6	13 - .1	63 + 10.0	13 + .1
14 + 0	64 + 12.6	14 - .1	64 + 3.8	14 + .1
15 + 0	65 + 13.0	15 - .1	65 + 4.8	15 + .1
16 + 0	66 + 10.4	16 - .1	66 + 5.5	16 + 14.5
17 + 0	67 + 6.5	17 - .1	67 + 6.0	17 + .5
18 + 0	68 + 10.0	18 - .1	68 + 9.6	18 + 1.4
19 + 0	69 + 10.7	19 - .1	69 + 13.2	19 + 6.4
20 - .1	70 + 9.2	20 - .1	70 + 13.1	20 + .1
21 - .1	71 + 7.1	21 - .1	71 + 8.4	21 + 4.1
22 - .1	72 + 8.8	22 - .1	72 + 6.3	22 + .1
23 + 0	73 + 10.0	23 - .1	73 + 8.1	23 + .2
24 - .1	74 + 11.7	24 + 1.0	74 + 5.4	24 + .2
25 + 0	75 + 11.0	25 + .4	75 + 6.3	25 + .2
26 + 0	76 + 11.0	26 + .4	76 + 7.4	26 + 28.1
27 + 0	77 + 11.0	27 + .3	77 + 7.7	27 + .1
28 + 0	78 + 12.4	28 + .3	78 + 7.8	28 + .8
29 + 0	79 + 9.4	29 + .3	79 + 8.1	29 + 4.0
30 + 0	80 + 9.6	30 + .3	80 + 8.3	30 + .1
31 + 0	81 + 10.0	31 + 0	81 + 8.5	
32 + 0	82 + 1.2	32 + 0	82 + 8.9	Seq. 5
33 - 0	83 + 10.2	33 - .1	83 + 9.4	
34 + 0	84 + 3.9	34 - .1	84 + 10.4	
35 + 0	85 + 7.5	35 - .1	85 + 11.7	
36 + 0	86 + 9.7	36 - .1	86 + 12.0	
37 + 0	87 + 10.9	37 - .1	87 + 4.9	
38 + 0	88 + 7.1	38 + 0	88 + 10.8	
39 + 0	89 + 8.3	39 + 0	89 + 19.6	
40 + 0	90 + 7.8	40 - .1	90 + 9.9	
41 + 0	91 + 8.3	41 - .1	91 + 11.0	
42 + 0	92 + 2.6	42 - .1	92 + 7.1	
43 + 0	93 + 10.4	43 - .1	93 + 13.3	
44 + 0	94 + 10.3	44 - .1	94 + 10.1	
45 + 0	95 + 9.2	45 - .1	95 + 10.3	
46 + 0	96 + 10.3	46 - .1	96 + 10.7	
47 + 0	97 + 9.0	47 - .1	97 + 10.8	
48 + 0	98 + 2.6	48 - .1	98 + 12.2	
49 + 0	99 + 3.0	49 - .1	99 + 12.8	
50 + 0	100 + .1	50 - .1	100 + .2	

2398 .10 30° .05 0 10.0 +2.5° 1.048 2046.7 .002249

a) 1 - .1	51 + .1	b) 1 - .1	51 + .1	c) 1 - .2
2 + .1	52 + 4.4	2 - .1	52 + 4.0	2 + 15.3
3 + .1	53 + 1.1	3 + 0	53 + .6	3 + 11.1
4 - 1.1	54 + 25.3	4 + 0	54 + 6.4	4 + 11.4
5 - .6	55 + 23.9	5 + 0	55 + 9.1	5 + 11.5
6 + 0	56 + 23.0	6 + 0	56 + 9.2	6 + 11.6
7 + 0	57 + 23.8	7 + 0	57 + 15.8	7 + 25.3
8 + 0	58 + 23.6	8 + 0	58 + 19.1	8 + 34.1
9 + 0	59 + 21.5	9 + .1	59 + 19.7	9 + 13.9
10 + 9.6	60 + 21.7	10 - .1	60 + 20.1	10 + 16.5
11 - 1.8	61 - 21.9	11 + 2.1	61 + 20.3	11 + 11.9
12 - .7	62 + 21.3	12 - .1	62 + 21.0	12 + 10.3
13 + 0	63 + 21.3	13 + .1	63 + 21.4	13 + 9.5
14 + 0	64 + 23.5	14 + .8	64 + 3.1	14 + 7.5
15 + 0	65 + 24.2	15 + .2	65 + 4.1	15 + 9.3
16 + 0	66 + 22.1	16 + .2	66 + 8.7	16 + 24.9
17 + .1	67 + 21.4	17 + .2	67 + 14.5	17 + 10.5
18 - .9	68 + 21.9	18 + .2	68 + 19.3	18 + 11.2
19 - .7	69 + 22.1	19 + .2	69 + 20.0	19 + 14.5
20 + .1	70 + 18.6	20 + .2	70 + 19.5	20 + .2
21 + .1	71 + 20.0	21 - .1	71 + 19.5	21 + 12.1
22 + .1	72 + 20.9	22 - .1	72 + 19.7	22 + 11.6
23 + .1	73 + 21.5	23 - .1	73 + 20.0	23 + 9.4
24 + .1	74 + 21.4	24 - .1	74 + 1.8	24 + 9.4
25 - 1.8	75 + 23.0	25 - .1	75 + 1.2	25 + 9.4
26 + 0	76 + 23.9	26 + 0	76 + .2	26 + 21.2
27 + 0	77 + 23.7	27 + 0	77 + 8.7	27 + 8.1
28 + 0	78 + 20.0	28 + 0	78 + 17.5	28 + 9.9
29 + 0	79 + 22.1	29 + .1	79 + 24.3	29 + 10.5
30 + 0	80 + 22.7	30 + .1	80 + 24.6	30 + .1
31 + 0	81 + 22.7	31 + .1	81 + 21.0	
32 - 3.0	82 + 22.7	32 + .1	82 + 22.0	Seq. 5
33 + .1	83 + 15.8	33 + .1	83 + 22.3	
34 + 0	84 + 14.3	34 + .1	84 + 21.2	
35 + 0	85 + 20.9	35 + .1	85 + 21.4	
36 + .1	86 + 22.0	36 + .1	86 + 21.7	
37 + .1	87 + 22.6	37 + .1	87 + 17.9	
38 + .2	88 + 2.4	38 + .1	88 + 22.1	
39 - 4.6	89 + 13.5	39 + .1	89 + 21.0	
40 + 0	90 + 23.7	40 + .1	90 + 21.0	
41 + 0	91 + 21.6	41 + .1	91 + 21.1	
42 + 0	92 + 3.6	42 + .1	92 + 19.1	
43 + 0	93 + 22.4	43 + .1	93 + 19.6	
44 + 0	94 + 22.5	44 + .1	94 + 20.0	
45 + 0	95 + 20.6	45 + .1	95 + 20.2	
46 + 0	96 + 21.8	46 + .1	96 + 21.0	
47 + 0	97 + 16.3	47 + .1	97 + 20.8	
48 + 0	98 + 3.0	48 + .1	98 + 21.9	
49 + 0	99 + 3.1	49 + .1	99 + 22.7	
50 + 0	100 + .1	50 + .1	100 + .2	

2399 .10 30° .05 0 10.0 0° 1.048 2046.7 .002249

a) 1 - .2	51 + .1	b) 1 - 0	51 + .1	c) 1 - .1
2 - .2	52 + 4.6	2 - 0	52 + 4.3	2 + 14.3
3 - .2	53 + 1.1	3 - .1	53 + .9	3 + 10.2
4 - 2.9	54 + 23.9	4 - .1	54 + 3.7	4 + 10.3
5 - .1	55 + 24.	5 - .1	55 + 4.5	5 + 10.3
6 - .1	56 + 24.8	6 - .1	56 + 5.0	6 + 10.3
7 - .1	57 + 24.1	7 - .1	57 + 12.6	7 + 21.7
8 - .1	58 + 23.6	8 - .1	58 + 19.9	8 + 30.2
9 - .1	59 + 23.1	9 - .1	59 + 23.4	9 + 12.3
10 - 2.2	60 + 23.1	10 - .1	60 + 23.7	10 + 14.8
11 - 2.8	61 + 23.1	11 - .1	61 + 21.0	11 + 13.2
12 - 1.1	62 + 23.3	12 - .1	62 + 22.1	12 + 11.3
13 - 0	63 + 23.3	13 - .1	63 + 22.7	13 + 9.1
14 - 0	64 + 23.0	14 - .1	64 + 4.3	14 + 9.2
15 - 0	65 + 23.3	15 - .1	65 + 5.0	15 + 9.8
16 - 0	66 + 25.1	16 - .1	66 + 9.5	16 + 24.8
17 - 0	67 + 23.4	17 - .1	67 + 17.1	17 + 10.1
18 - 2.6	68 + 23.5	18 - .1	68 + 22.2	18 + 11.4
19 - 1.2	69 + 3.7	19 - .1	69 + 23.0	19 + 15.2
20 - .1	70 + 22.5	20 - .1	70 + 21.5	20 + .3
21 - .1	71 + 22.5	21 - .1	71 + 21.5	21 + 12.8
22 - .2	72 + 22.6	22 - .1	72 + 21.7	22 + 10.0
23 - .2	73 + 22.9	23 - .1	73 + 22.2	23 + 9.8
24 - .2	74 + 23.3	24 - .1	74 + 3.4	24 + 9.8
25 - 1.8	75 + 23.7	25 + 0	75 + 3.4	25 + 9.8
26 - 0	76 + 24.3	26 - .1	76 + 7.5	26 + 24.6
27 - 0	77 + 24.1	27 + 0	77 + 16.2	27 + 7.7
28 - 0	78 + 23.5	28 + 0	78 + 20.6	28 + 9.6
29 - .1	79 + 23.5	29 + 0	79 + 23.6	29 + 10.4
30 - .1	80 + 3.5	30 + 0	80 + 23.1	30 + .1
31 - 0	81 + 23.5	31 + .1	81 + 22.8	
32 - 2.8	82 + 3.5	32 + .1	82 + 22.8	Seq. 5
33 - .2	83 + 19.2	33 + .1	83 + 23.2	
34 - .2	84 + 12.7	34 + .1	84 + 23.4	
35 - .2	85 + 22.5	35 + .1	85 + 23.4	
36 - .2	86 + 22.9	36 + .1	86 + 23.4	
37 - .2	87 + 23.3	37 + .1	87 + 19.2	
38 - .2	88 + 3.9	38 + .1	88 + 23.4	
39 - 2.3	89 + 17.9	39 + .2	89 + 22.0	
40 - .2	90 + 21.5	40 + .2	90 + 22.3	
41 - .2	91 + 22.1	41 + 0	91 + 22.7	
42 - .2	92 + 4.4	42 + 0	92 + 19.0	
43 - .2	93 + 23.0	43 + 0	93 + 1.7	
44 - .2	94 + 23.1	44 + 0	94 + 22.2	
45 - .2	95 + 1.2	45 + 0	95 + 22.4	
46 - .2	96 + 22.7	46 + 0	96 + 22.6	
47 - .2	97 + 17.5	47 + 0	97 + 22.8	
48 - .2	98 + 3.4	48 + 0	98 + 23.8	
49 - .2	99 + 3.5	49 + 0	99 + 24.3	
50 - .2	100 + .1	50 + 0	100 + .2	

2400 .10 30° .05 0 10.0 -2.5° 1.048 2046.7 .002249

a) 1 + .1	51 + .2	b) 1 + 0	51 + .2	c) 1 + .1
2 + .1	52 + 4.9	2 + 0	52 + 4.4	2 + 14.0
3 + .1	53 + .8	3 + 0	53 + 1.4	3 + 10.7
4 - 6.1	54 + 21.0	4 + 0	54 + 3.3	4 + 10.2
5 + .1	55 + 25.8	5 + 0	55 + 2.9	5 + 10.3
6 + .2	56 + 23.6	6 + 0	56 + 1.9	6 + 10.3
7 + .2	57 + 24.1	7 + 0	57 + 2.1	7 + 18.3
8 + .2	58 + 20.2	8 + 0	58 + 15.0	8 + 25.4
9 + .2	59 + 21.0	9 + 0	59 + 22.0	9 + 12.0
10 + .5	60 + 21.7	10 + 0	60 + 27.0	10 + 13.8
11 - 4.4	61 + 21.9	11 - 1.9	61 + 21.1	11 + 13.9
12 + .1	62 + 19.9	12 + .1	62 + 22.3	12 + 9.7
13 + .1	63 + 21.3	13 + .1	63 + 23.0	13 + 8.4
14 + .1	64 + 23.7	14 - 1.8	64 + 5.0	14 + 8.5
15 + .1	65 + 24.3	15 + 0	65 + 5.5	15 + 9.6
16 + .1	66 + 21.2	16 + 0	66 + 9.2	16 + 24.4
17 + .1	67 + 19.6	17 + 0	67 + 15.5	17 + 9.7
18 - 3.5	68 + 21.5	18 + 0	68 + 22.2	18 + 11.3
19 - .9	69 + 21.8	19 + 0	69 + 24.2	19 + 16.5
20 + 0	70 + 20.6	20 + 0	70 + 19.9	20 + .2
21 + 0	71 + 20.6	21 + 0	71 + 19.7	21 + 14.9
22 + 0	72 + 20.6	22 + 0	72 + 19.7	22 + 11.1
23 + 0	73 + 20.9	23 + 0	73 + 20.4	23 + 10.9
24 + 0	74 + 22.3	24 + .4	74 + 5.3	24 + 10.9
25 - 1.8	75 + 22.5	25 + .1	75 + 7.5	25 + 10.9
26 + .1	76 + 22.6	26 + .1	76 + 12.1	26 + 30.6
27 + .1	77 + 22.8	27 + .1	77 + 16.3	27 + 8.7
28 + .1	78 + 2.8	28 + .1	78 + 18.8	28 + 10.9
29 + .1	79 + 22.5	29 + .1	79 + 20.7	29 + 11.7
30 + .1	80 + 22.5	30 + .1	80 + 21.1	30 + .2
31 + .1	81 + 22.5	31 + .2	81 + 21.2	
32 - 2.4	82 + 22.5	32 + 0	82 + 21.3	Seq. 5
33 + .1	83 + 17.2	33 + 0	83 + 21.5	
34 + 0	84 + 12.5	34 + 0	84 + 22.2	
35 + 0	85 + 20.4	35 + 0	85 + 22.6	
36 + 0	86 + 21.1	36 + 0	86 + 22.7	
37 + 0	87 + 21.9	37 + 0	87 + 15.1	
38 + .1	88 + 6.3	38 + .1	88 + 22.6	
39 - 1.1	89 + 18.1	39 + .1	89 + 24.9	
40 + .1	90 + 19.3	40 + 0	90 + 21.6	
41 + 0	91 + 20.3	41 + 0	91 + 2.1	
42 + 0	92 + 3.8	42 + 0	92 + 16.8	
43 + 0	93 + 21.0	43 + 0	93 + 21.3	
44 + 0	94 + 21.1	44 + 0	94 + 21.6	
45 + 0	95 + 20.1	45 + 0	95 + 1.7	
46 + 0	96 + 20.8	46 + 0	96 + 21.7	
47 + 0	97 + 16.3	47 + 0	97 + 21.7	
48 + 0	98 + 2.9	48 + 0	98 + 22.7	
49 + 0	99 + 3.4	49 + 0	99 + 23.2	
50 + 0	100 + .1	50 + 0	100 + .2	

2431 .10 30° .03 0 10.0 +2.5° 1.048 2052.4 .002296

a) 1 + 0	51 + .2	b) 1 - .1	51 + .2	c) 1 + .2
2 + 0	52 + 4.1	2 + 0	52 + 3.8	2 + 33.1
3 + 0	53 + .8	3 + 0	53 + 1.0	3 + 29.8
4 - 3.3	54 + 37.5	4 + 0	54 + 7.4	4 + 29.8
5 - 1.2	55 + 36.7	5 + 0	55 + 12.2	5 + 30.0
6 + 0	56 + 35.6	6 + 0	56 + 14.0	6 + 30.2
7 + 0	57 + 36.4	7 + 0	57 + 27.0	7 + 38.5
8 + 0	58 + 36.5	8 + 0	58 + 32.8	8 + 45.5
9 + 0	59 + 34.3	9 + .2	59 + 33.0	9 + 31.1
10 - 11.0	60 + 34.5	10 - .1	60 + 34.1	10 + 33.8
11 - 4.3	61 + 34.8	11 + 1.9	61 + 34.0	11 + 27.3
12 - 1.3	62 + 33.7	12 - .1	62 + 35.2	12 + 27.5
13 + .1	63 + 34.4	13 - .1	63 + 35.6	13 + 27.5
14 + .1	64 + 36.1	14 + .3	64 + 1.0	14 + 23.7
15 + .1	65 + 36.8	15 - .1	65 + .6	15 + 25.3
16 + .1	66 + 35.8	16 - .1	66 + 8.7	16 + 39.6
17 + .1	67 + 35.4	17 - .1	67 + 28.4	17 + 26.2
18 - 3.2	68 + 35.4	18 - .1	68 + 32.8	18 + 27.7
19 - 1.3	69 + 35.3	19 - .1	69 + 33.0	19 + 30.0
20 + .1	70 + 30.1	20 - .1	70 + 33.7	20 + .5
21 + .1	71 + 33.2	21 - .1	71 + 33.8	21 + 27.5
22 + .1	72 + 33.9	22 - .1	72 + 33.9	22 + 26.5
23 + .1	73 + 34.4	23 - .1	73 + 34.1	23 + 26.0
24 + .1	74 + 34.5	24 - 2.2	74 + 1.9	24 + 24.4
25 - 6.8	75 + 36.6	25 + 0	75 - 1.6	25 + 24.7
26 - 1.4.	76 + 36.6	26 + 0	76 - 7.8	26 + 36.0
27 + .1	77 + 35.6	27 + 0	77 - .3	27 + 21.2
28 + .1	78 + 31.5	28 + 0	78 + 34.6	28 + 5.1
29 + .1	79 + 35.7	29 + 0	79 + 40.4	29 + 23.5
30 + .1	80 + 35.9	30 + 0	80 + 36.2	30 + .1
31 + .1	81 + 35.8	31 + 0	81 + 36.0	
32 - 7.4	82 + 35.8	32 + 0	82 + 36.1	Seq. 5
33 - 1.0	83 + 29.1	33 + 0	83 + 36.3	
34 + .1	84 + 20.7	34 + 0	84 + 36.1	
35 + .1	85 + 34.3	35 + 0	85 + 36.1	
36 + .1	86 + 34.4	36 + 0	86 + 36.1	
37 + .1	87 + 34.8	37 + 0	87 + 31.0	
38 + .1	88 + 1.5	38 + 0	88 + 36.7	
39 - 9.8	89 + 24.1	39 + 0	89 + 35.6	
40 + .1	90 + 34.6	40 + 0	90 + 35.6	
41 + .1	91 + 34.8	41 + 0	91 + 31.6	
42 + 0	92 + 4.8	42 + 0	92 + 33.4	
43 + 0	93 + 35.1	43 + 0	93 + 33.6	
44 + 0	94 + 35.1	44 + 0	94 + 34.3	
45 + 0	95 + 32.2	45 + 0	95 + 34.5	
46 + 0	96 + 34.2	46 + 0	96 + 35.0	
47 + 0	97 + 27.6	47 + 0	97 + 35.0	
48 + 0	98 + 3.7	48 + 0	98 + 36.0	
49 + 0	99 + 3.7	49 + 0	99 + 37.2	
50 + 0	100 + .2	50 + 0	100 + .1	

2432 .10 30° .03 0 10.0 0° 1.048 2052.4 .002296

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .2
2 + 0	52 + 3.9	2 + 0	52 + 3.6	2 + 31.8
3 + 0	53 + .8	3 + 0	53 + .9	3 + 28.0
4 - 6.3	54 + 38.9	4 + 0	54 + 1.8	4 + 28.4
5 - 1.6	55 + 39.6	5 + 0	55 + 2.0	5 + 28.5
6 + .1	56 + 39.7	6 + 0	56 + 3.5	6 + 28.5
7 + .1	57 + 39.7	7 + 0	57 + 23.8	7 + 38.7
8 + .1	58 + 36.8	8 + 0	58 + 35.2	8 + 44.2
9 + .1	59 + 37.1	9 + 0	59 + 37.8	9 + 29.8
10 + 2.7	60 + 37.5	10 + 0	60 + 38.0	10 + 32.4
11 - 6.4	61 + 37.7	11 - 3.8	61 + 38.0	11 + 30.7
12 - 1.6	62 + 37.8	12 + .1	62 + 38.1	12 + 27.8
13 + .1	63 + 38.0	13 + .1	63 + 33.4	13 + 27.0
14 + .1	64 + 39.0	14 - 2.5	64 + 2.0	14 + 26.5
15 + .1	65 + 39.7	15 + .2	65 + 2.0	15 + 27.0
16 + .1	66 + 38.1	16 + .2	66 + 12.4	16 + 39.8
17 + .1	67 + 38.0	17 + .2	67 + 30.3	17 + 28.5
18 - 6.3	68 + 38.2	18 + .2	68 + 36.0	18 + 28.9
19 - 1.1	69 + 38.2	19 + .2	69 + 36.9	19 + 31.6
20 + .1	70 + 36.1	20 + .2	70 + 37.0	20 + .2
21 + .1	71 + 36.7	21 + .2	71 + 37.1	21 + 30.7
22 + .1	72 + 37.0	22 + .2	72 + 37.3	22 + 27.0
23 + .1	73 + 37.3	23 + .2	73 + 37.5	23 + 25.8
24 + .1	74 + 37.7	24 - 2.0	74 + 1.9	24 + 25.8
25 - 6.5	75 + 38.6	25 + .2	75 + .2	25 + 25.4
26 - 1.2	76 + 38.8	26 + .3	76 + 8.6	26 + 39.8
27 - 1.0	77 + 38.6	27 + .3	77 + 8.6	27 + 23.0
28 + .1	78 + 37.0	28 + .3	78 + 35.9	28 + 26.0
29 + .1	79 + 37.7	29 + .3	79 + 36.9	29 + 25.0
30 + .1	80 + 37.9	30 + .3	80 + 37.2	30 + .1
31 + .1	81 + 38.0	31 + .3	81 + 37.4	
32 - 6.6	82 + 38.0	32 + .3	82 + 37.7	Seq. 5
33 - 1.1	83 + 33.0	33 + .3	83 + 37.9	
34 - .9	84 + 22.9	34 + .3	84 + 38.1	
35 + .1	85 + 37.4	35 + .3	85 + 38.1	
36 + .1	86 + 37.7	36 + 0	86 + 38.1	
37 + .1	87 + 37.8	37 + 0	87 + 33.7	
38 + .1	88 + 1.3	38 + 0	88 + 38.8	
39 - 6.1	89 + 31.8	39 + 0	89 + 36.0	
40 + .1	90 + 35.6	40 + 0	90 + 37.0	
41 + .2	91 + 37.0	41 + .1	91 + 37.6	
42 + .2	92 + 4.8	42 + 0	92 + 33.6	
43 + .3	93 + 37.9	43 + 0	93 + 37.2	
44 + .3	94 + 37.2	44 + 0	94 + 37.6	
45 + .3	95 + 34.8	45 + 0	95 + 37.7	
46 + .3	96 + 36.6	46 + 0	96 + 37.7	
47 + .3	97 + 30.2	47 + 0	97 + 37.8	
48 + .3	98 + 2.8	48 + 0	98 + 38.5	
49 + .3	99 + 3.1	49 + 0	99 + 39.1	
50 + .3	100 + .1	50 + 0	100 + .2	

	2.33	.10	30°	.03	0	10.0	-2.5°	1.048	2052.4	.002296
a)1	+ .1		51	+ .2		b)1	+ 0		51	+ .1
2	+ .1		52	+ 4.8		2	+ 0		52	+ 4.6
3	+ .1		53	+ 1.2		3	+ 0		53	+ 1.2
4	-10.1		54	+ 35.0		4	+ 0		54	+ 2.3
5	+ .3		55	+ 38.8		5	+ 0		55	+ .2
6	+ .3		56	+ 39.0		6	+ 0		56	+ 2.5
7	+ .3		57	+ 39.0		7	+ 0		57	+ 17.1
8	+ .3		58	+ 33.7		8	+ 0		58	+ 32.1
9	+ .3		59	+ 35.9		9	+ 0		59	+ 38.5
10	- 1.2		60	+ 36.3		10	+ 0		60	+ 40.5
11	- 8.3		61	+ 36.5		11	- 4.6		61	+ 35.9
12	+ .1		62	+ 36.1		12	+ .1		62	+ 36.7
13	+ .1		63	+ 36.6		13	+ .1		63	+ 36.9
14	+ .3		64	+ 38.1		14	- 4.1		64	+ 2.6
15	+ .3		65	+ 38.7		15	+ .1		65	+ 3.1
16	+ .4		66	+ 35.4		16	+ .1		66	+ 12.9
17	+ .4		67	+ 35.4		17	+ .1		67	+ 29.1
18	- 8.2		68	+ 36.2		18	+ .1		68	+ 36.3
19	- .3		69	+ 36.4		19	+ .1		69	+ 36.8
20	+ .1		70	+ 34.7		20	+ .1		70	+ 34.2
21	+ .1		71	+ 34.9		21	+ .1		71	+ 34.2
22	.2		72	+ 35.1		22	+ .1		72	+ 34.2
23	+ .2		73	+ 35.5		23	+ .1		73	+ 34.8
24	+ .2		74	+ 36.5		24	- .4		74	+ 5.3
25	- 4.4		75	+ 36.9		25	+ .3		75	+ 9.6
26	+ .2		76	+ 37.0		26	+ .3		76	+ 20.4
27	+ .2		77	+ 37.2		27	+ .3		77	+ 29.5
28	+ .2		78	+ 37.2		28	+ .3		78	+ 32.3
29	+ .2		79	+ 36.7		29	+ .3		79	+ 34.1
30	+ .2		80	+ 36.7		30	+ .3		80	+ 34.7
31	+ .2		81	+ 36.7		31	+ .3		81	+ 34.9
32	- 5.5		82	+ 36.7		32	+ .3		82	+ 35.3
33	- .8		83	+ 31.6		33	+ .3		83	+ 35.5
34	+ .2		84	+ 21.5		34	+ .3		84	+ 36.0
35	+ .2		85	+ 35.1		35	+ .1		85	+ 36.3
36	+ .2		86	+ 35.5		36	- .9		86	+ 36.4
37	+ .2		87	+ 36.0		37	+ .1		87	+ 29.9
38	+ .2		88	+ 6.7		38	+ .1		88	+ 36.8
39	- 2.2		89	+ 31.6		39	+ .1		89	+ 34.2
40	+ .1		90	+ 34.3		40	+ .1		90	+ 35.2
41	- .1		91	+ 34.8		41	+ .1		91	+ 35.8
42	+ 0		92	+ 5.2		42	+ .1		92	+ 31.0
43	+ 0		93	+ 36.3		43	+ .1		93	+ 34.6
44	+ 0		94	+ 36.0		44	+ .1		94	+ 33.2
45	+ 0		95	+ 32.8		45	+ .1		95	+ 35.4
46	+ 0		96	+ 35.6		46	+ 0		96	+ 35.5
47	+ 0		97	+ 29.2		47	+ 0		97	+ 35.5
48	+ 0		98	+ 3.4		48	+ 0		98	+ 36.6
49	+ 0		99	+ 3.5		49	+ 0		99	+ 37.0
50	+ 0		100	+ .1		50	+ 0		100	+ .2

Seq. 5

2454 .10 30° .01 0 10.0 0° 1.048 2051.6 .002337

a) 1 + 0	51 + .3	b) 1 - .1	51 + .2	c) 1 + .1
2 + 0	52 + 4.4	2 - .1	52 + 4.2	2 + 65.2
3 + 0	53 + 1.5	3 - .1	53 + 1.3	3 + 64.0
4 - 11.5	54 + 67.9	4 - .1	54 + .9	4 + 64.4
5 - .3	55 + 68.5	5 - .1	55 + 4.3	5 + 64.3
6 + .1	56 + 68.1	6 - .1	56 + 4.4	6 + 64.1
7 + .1	57 + 68.1	7 - .1	57 + 8.6	7 + 66.9
8 + .1	58 + 67.0	8 - .1	58 + 65.8	8 + 70.7
9 + .1	59 + 67.2	9 - .1	59 + 66.2	9 + 64.8
10 + 11.0	60 + 67.2	10 - .1	60 + 66.4	10 + 65.5
11 - 10.6	61 + 67.2	11 - 7.0	61 + 66.7	11 + 65.8
12 - .6	62 + 67.2	12 - 0	62 + 67.2	12 + 65.0
13 + .1	63 + 67.2	13 - .1	63 + 67.3	13 + 64.5
14 + .1	64 + 67.8	14 - 7.1	64 + .1	14 + 61.1
15 + .1	65 + 68.1	15 - 0	65 + 4.6	15 + 63.6
16 + .1	66 + 68.0	16 - 0	66 + 2.4	16 + 69.3
17 + .1	67 + 67.1	17 - 0	67 + 63.2	17 + 64.0
18 - 11.3	68 + 67.2	18 - 0	68 + 65.8	18 + 64.9
19 - 1.0	69 + 67.1	19 - 0	69 + 66.0	19 + 66.1
20 - .1	70 + 65.8	20 - 0	70 + 66.2	20 + .2
21 - .1	71 + 66.0	21 - 0	71 + 66.3	21 + 64.9
22 - .1	72 + 66.2	22 - 0	72 + 66.4	22 + 62.0
23 + 0	73 + 66.2	23 - 0	73 + 66.5	23 + 62.2
24 - .1	74 + 66.8	24 - 5.7	74 + .6	24 + 62.2
25 - 11.8	75 + 67.4	25 - .1	75 + 4.3	25 + 59.2
26 - 1.2	76 + 67.6	26 - .1	76 + 4.3	26 + 68.1
27 - .1	77 + 67.7	27 - .1	77 + 61.3	27 + 54.1
28 - .1	78 + 67.1	28 - .1	78 + 66.1	28 + 63.6
29 - .1	79 + 67.1	29 - .1	79 + 66.2	29 + 55.0
30 - .1	80 + 67.2	30 - .1	80 + 66.3	30 + .2
31 - .1	81 + 67.2	31 - .1	81 + 66.4	
32 - 11.6	82 + 67.2	32 - .1	82 + 66.6	Seq. 5
33 - 1.2	83 + 65.3	33 - .1	83 + 66.8	
34 - .1	84 + 1.8	34 - .1	84 + 66.9	
35 - .1	85 + 66.7	35 - .1	85 + 66.9	
36 - .1	86 + 66.8	36 - .3	86 + 66.9	
37 - .1	87 + 66.8	37 - 0	87 + 65.5	
38 - .1	88 + 1.6	38 - 0	88 + 67.8	
39 - 11.2	89 + 63.9	39 - 0	89 + 66.6	
40 - .1	90 + 5.9	40 - 0	90 + 66.6	
41 + 0	91 + 66.1	41 + 0	91 + 66.6	
42 + 0	92 + 8.1	42 + 0	92 + 64.9	
43 + 0	93 + 58.1	43 + 0	93 + 66.0	
44 + 0	94 + 66.5	44 + 0	94 + 66.2	
45 + 0	95 + 62.2	45 + 0	95 + 66.3	
46 + 0	96 + 66.5	46 + 0	96 + 66.3	
47 + 0	97 + 55.7	47 + 0	97 + 66.3	
48 + 0	98 + 3.7	48 + 0	98 + 66.8	
49 + 0	99 + 3.9	49 + 0	99 + 67.2	
50 + 0	100 + .1	50 + 0	100 + .2	

2490 .10 0° .25 0 10.0 +2.5° 1.049 2038.2 .002269

a) 1 + 0	51 - .2	b) 1 + 0	51 - .3	c) 1 - .1
2 + 0	52 - 3.5	2 + 1.0	52 - 3.3	2 - 10.3
3 + 0	53 - 3.6	3 + .1	53 - 2.9	3 - 21.3
4 + 0	54 - 2.2	4 + .2	54 - 2.1	4 - 25.8
5 + 0	55 - 2.1	5 + .2	55 - 2.0	5 - 25.7
6 + 0	56 - 2.1	6 + .1	56 - 2.1	6 - 23.3
7 + 0	57 - 2.1	7 + .1	57 - 2.3	7 - 12.9
8 + 0	58 - 2.1	8 + .3	58 - 2.3	8 - 23.0
9 + 0	59 - 2.6	9 + .6	59 - 2.4	9 - 16.6
10 + 2.3	60 - 2.6	10 + .6	60 - 2.4	10 - 24.5
11 + 0	61 - 2.5	11 + 2.5	61 - 2.4	11 - 8.2
12 + 0	62 - 3.3	12 + .1	62 - 2.4	12 - 14.8
13 + 0	63 - 3.2	13 + .7	63 - 2.4	13 - 24.9
14 + 0	64 - 2.6	14 + 2.3	64 - .3	14 - 23.2
15 + 0	65 - 2.0	15 + .1	65 - .5	15 - 17.2
16 + 0	66 - 2.3	16 + .4	66 - .7	16 - 4.0
17 + 0	67 - 2.5	17 + .5	67 - .7	17 - 14.3
18 + 0	68 - 2.2	18 + .5	68 - .6	18 - 15.8
19 + 0	69 - 1.7	19 + .6	69 - .6	19 - 22.5
20 + 0	70 - 2.2	20 + .1	70 - 2.1	20 + .2
21 + 0	71 - 2.2	21 + 0	71 - 2.8	21 - 2.2
22 + 0	72 - 1.7	22 + .1	72 - 2.7	22 - 9.0
23 + 0	73 - 1.1	23 + .7	73 - 2.3	23 - 14.8
24 + 0	74 - 1.6	24 + 3.7	74 - .2	24 - 17.9
25 + 0	75 - 1.4	25 + .3	75 - .7	25 - 2.6
26 + 0	76 - .2	26 + .4	76 - 1.5	26 - 1.0
27 + .1	77 - .4	27 + .4	77 - 3.3	27 - 1.6
28 + .1	78 - .2	28 + .4	78 - 3.7	28 - 2.2
29 + .1	79 - .2	29 + .5	79 - 2.4	29 - 5.4
30 + .1	80 - .4	30 + .7	80 - .4	30 - .1
31 + .1	81 - 1.3	31 + .2	81 - .1	
32 + .1	82 - 1.5	32 + .3	82 - .1	Seq. 5
33 + .1	83 + 2.9	33 + .3	83 + .1	
34 + .1	84 - .3	34 + .4	84 - .3	
35 + .1	85 - .5	35 + .4	85 - .6	
36 + .1	86 - .6	36 + .1	86 - .8	
37 + .1	87 - .9	37 + .3	87 - .9	
38 + .1	88 - 2.4	38 + .5	88 - .7	
39 + .1	89 - 4.4	39 + .9	89 - .7	
40 + .1	90 - .8	40 + 0	90 - .7	
41 + .1	91 - .6	41 + 0	91 - .9	
42 + 0	92 - .2	42 + 0	92 - 1.6	
43 + 0	93 - 1.2	43 + 0	93 - 1.1	
44 + 0	94 - 1.4	44 + 0	94 - 1.0	
45 + 0	95 - 1.4	45 + 0	95 - 1.1	
46 + .1	96 - 1.4	46 + 0	96 - 1.2	
47 + .1	97 - 1.5	47 + 0	97 - 1.3	
48 + .1	98 - .1	48 + 0	98 - 1.3	
49 + .1	99 - .1	49 + 0	99 - 1.5	
50 + 0	100 + .1	50 + 0	100 + .1	

2491 .10 0° .25 0 10.0 0° 1.049 2038.2 .002269

a) 1 + 0	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 + 0	52 - 3.0	2 - .1	52 - 3.4	2 - 8.8
3 + 0	53 - 3.2	3 - .1	53 - 3.4	3 - 15.5
4 + 0	54 - 3.2	4 - .1	54 - 1.7	4 - 24.1
5 + 0	55 - 3.0	5 - .1	55 - 1.3	5 - 25.4
6 + 0	56 - 2.9	6 - .1	56 - 1.9	6 - 16.2
7 + 0	57 - 2.7	7 - .1	57 - 1.6	7 + 4.4
8 + 0	58 - 2.7	8 - .1	58 - 1.5	8 + 8.9
9 + 0	59 - 2.7	9 - .1	59 - 1.8	9 - 8.6
10 + 1.1	60 - 2.7	10 + 0	60 - 2.0	10 - 18.6
11 + 0	61 - 2.7	11 + 3.8	61 - 2.7	11 - 11.0
12 + 0	62 - 2.8	12 - .1	62 - 2.7	12 - 17.1
13 + 0	63 - 2.8	13 - .1	63 - 2.7	13 - 25.5
14 + 0	64 - 2.7	14 + 2.8	64 + .3	14 - 23.0
15 + 0	65 - 2.0	15 - .1	65 + .3	15 - 20.8
16 + 0	66 - 2.4	16 - .1	66 + .3	16 + 5.6
17 + 0	67 - 2.4	17 - .1	67 + .1	17 + 15.2
18 + 0	68 - 2.2	18 + 0	68 - .3	18 - 17.3
19 + 0	69 - 2.0	19 + .1	69 - 1.0	19 - 23.4
20 + 0	70 - 1.9	20 + .1	70 - 1.5	20 + .2
21 + 0	71 - 2.0	21 - .1	71 - 1.5	21 - 9.1
22 + 0	72 - 1.9	22 - .1	72 - 1.5	22 - 16.4
23 + 0	73 - 1.6	23 + .4	73 - 1.5	23 - 23.8
24 + 0	74 - 1.6	24 + 3.1	74 + .2	24 - 24.5
25 + 0	75 - 1.5	25 + 0	75 + .2	25 - 14.3
26 + 0	76 + .1	26 + 0	76 + .4	26 + 1.0
27 + 0	77 + .1	27 + 0	77 + .7	27 + 3.1
28 + 0	78 + .2	28 + 0	78 + .8	28 - 6.8
29 + 0	79 + .2	29 + 0	79 + .9	29 - 13.9
30 + 0	80 + .4	30 + .1	80 + .8	30 + .2
31 + 0	81 + .5	31 + .2	81 + .8	
32 + 0	82 + .5	32 + .3	82 + .8	Seq. 5
33 + 0	83 + 1.0	33 + .3	83 + .8	
34 + 0	84 + .3	34 + .3	84 + .8	
35 + 0	85 + .3	35 + .3	85 + .9	
36 + 0	86 + .5	36 + .2	86 + 1.0	
37 + 0	87 + .7	37 + .2	87 + 2.6	
38 + 0	88 + 1.6	38 + .2	88 + .6	
39 + 0	89 + 2.0	39 + .4	89 + .6	
40 + 0	90 + .1	40 + .1	90 + .9	
41 + 0	91 + .2	41 + .1	91 + 1.1	
42 + 0	92 + .1	42 + .1	92 + 2.3	
43 + 0	93 + .7	43 + .1	93 + 1.7	
44 + 0	94 + .9	44 + .1	94 + 1.7	
45 + 0	95 + 1.1	45 + .1	95 + 1.7	
46 + 0	96 + 1.3	46 + .1	96 + 1.7	
47 + 0	97 + 1.3	47 + .1	97 + 1.7	
48 + 0	98 + .2	48 + .1	98 + 1.7	
49 + 0	99 + .2	49 + .1	99 + 1.7	
50 + 0	100 + .2	50 + .1	100 + .1	

2492 .10 0° .25 0 10.0 -2.5° 1.049 2038.2 .002269

a) 1 - .1	51 + .2	b) 1 + .1	51 + .2	c) 1 + .1
2 - .1	52 + 3.0	2 + .3	52 + 3.4	2 + 2.6
3 - .1	53 + 3.4	3 + .4	53 + 3.4	3 + 8.8
4 - .1	54 + 3.4	4 + .4	54 + 1.9	4 + 16.2
5 - .1	55 + 3.3	5 + .5	55 + .3	5 + 19.3
6 - .1	56 + 3.2	6 + .5	56 + .6	6 + 4.4
7 - .1	57 + 2.9	7 + .5	57 + .5	7 + 2.4
8 - .1	58 + 2.8	8 + .6	58 + .7	8 + 4.4
9 - .1	59 + 3.0	9 + .7	59 + .8	9 + .1
10 + .7	60 + 2.9	10 + 1.2	60 + .5	10 + 10.4
11 - .1	61 + 2.7	11 + 4.2	61 + 2.4	11 + 10.2
12 - .1	62 + 3.1	12 + .1	62 + 2.4	12 + 17.4
13 - .1	63 + 3.1	13 + .9	63 + 2.4	13 + 4.7
14 - .1	64 + 2.9	14 + 3.1	64 + .6	14 + 22.9
15 - .1	65 + 1.0	15 + .6	65 + .5	15 + 21.2
16 - .1	66 + 2.9	16 + .4	66 + .6	16 + 7.2
17 - .1	67 + 2.9	17 + .6	67 + .2	17 + 16.3
18 - .1	68 + 2.5	18 + .6	68 + .2	18 + 20.4
19 - .1	69 + 2.1	19 + .6	69 + .4	19 + 25.0
20 - .1	70 + 2.1	20 + .7	70 + 1.3	20 + .1
21 - .1	71 + 2.4	21 + .4	71 + 1.3	21 + 13.4
22 - .1	72 + 2.3	22 + .4	72 + 1.4	22 + 22.8
23 - .1	73 + 1.8	23 + .8	73 + 1.3	23 + 30.5
24 - .1	74 + 1.7	24 + 3.7	74 + .9	24 + 29.5
25 - .1	75 + 1.6	25 + .3	75 + .6	25 + 25.5
26 - .1	76 + .1	26 + .4	76 + .5	26 + 7.9
27 - .1	77 + .2	27 + .4	77 + .4	27 + 13.3
28 - .1	78 + .4	28 + .4	78 + .2	28 + 13.8
29 - .1	79 + .4	29 + .5	79 + .2	29 + 22.8
30 + 0	80 + .4	30 + 0	80 + .3	30 + .1
31 + 0	81 + .5	31 + .3	81 + .5	
32 + 0	82 + .7	32 + .3	82 + .5	Seq. 5
33 + 0	83 + 1.4	33 + .4	83 + .6	
34 + 0	84 + .7	34 + .4	84 + .6	
35 + 0	85 + .7	35 + .4	85 + 1.0	
36 + 0	86 + .8	36 + .1	86 + 1.2	
37 + 0	87 + .7	37 + .5	87 + 4.8	
38 + 0	88 + 1.2	38 + .8	88 + .7	
39 + 0	89 + 1.3	39 + 1.1	89 + 1.6	
40 + 0	90 + .9	40 + 0	90 + 1.7	
41 + 0	91 + .9	41 + 0	91 + 1.7	
42 + 0	92 + .1	42 + .1	92 + 4.4	
43 + 0	93 + .7	43 + .1	93 + 1.0	
44 + 0	94 + .9	44 + .1	94 + 1.1	
45 + 0	95 + .9	45 + .1	95 + 1.3	
46 - .1	96 + 1.1	46 + 0	96 + 1.6	
47 - .1	97 + 1.2	47 + 0	97 + 1.7	
48 - .1	98 + .3	48 + 0	98 + 1.8	
49 - .1	99 + .3	49 + 0	99 + 1.9	
50 - .1	100 + .1	50 + 0	100 + .2	

2533 .10 0° .15 0 10.0 +5.0° 1.049 2056.6 .002333

a) 1 + 0	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + 0	52 - 3.2	2 + .1	52 - 3.6	2 - 12.0
3 + 0	53 - 3.5	3 + .1	53 - 3.6	3 - 23.0
4 - .9	54 + .2	4 + .1	54 - 2.2	4 - 22.0
5 + 0	55 - .2	5 + .1	55 - 1.9	5 - 21.4
6 + 0	56 - .9	6 + .1	56 - 2.5	6 - 17.0
7 + 0	57 - .9	7 + .1	57 - 2.5	7 + 20.8
8 + 0	58 - .9	8 + .1	58 - 2.4	8 + 30.9
9 + 0	59 - 2.3	9 + .1	59 - 2.4	9 - 16.1
10 + 1.1	60 - 1.5	10 + 1	60 - 2.4	10 - 19.5
11 - .1	61 - 1.3	11 + 1.6	61 - 2.5	11 - 7.8
12 - .1	62 - 2.2	12 - .8	62 - 2.4	12 - 14.8
13 - .1	63 - 2.0	13 + 0	63 - 2.3	13 - 26.0
14 - .1	64 - 1.2	14 + 2.3	64 - 1.4	14 - 21.4
15 - .1	65 - .4	15 - .1	65 + .3	15 - 15.7
16 - .1	66 - 2.3	16 - .1	66 + 1.0	16 + 5.1
17 - .1	67 - 2.5	17 - .1	67 + 1.8	17 + 16.0
18 - .1	68 - 1.1	18 - .1	68 + 2.2	18 - 15.5
19 - .1	69 + 3	19 - .1	69 + .7	19 - 21.6
20 - .1	70 - 2.2	20 - .1	70 - 2.4	20 + .2
21 - .1	71 - 2.0	21 - .1	71 - 2.9	21 - 2.1
22 + 0	72 + .3	22 - .1	72 - 2.8	22 - 5.8
23 + 0	73 + .4	23 - .1	73 - 1.8	23 - 8.7
24 + 0	74 - 2.4	24 + 1.5	74 - 1.9	24 - 11.4
25 + 0	75 - 1.9	25 + 0	75 - 1.8	25 + .2
26 + 0	76 + .6	26 + .1	76 - .9	26 + .9
27 + 0	77 + 1.6	27 + .1	77 + 1.9	27 + 1.2
28 + 0	78 - 1.8	28 + .1	78 + 4.9	28 - 1.8
29 + 0	79 - .6	29 + .1	79 + 7.6	29 - 2.6
30 + 0	80 + 1.6	30 + .1	80 + 9.0	30 + .2
31 + 0	81 + 2.1	31 + 0	81 + 2.1	
32 + 0	82 + 2.3	32 + 0	82 + .7	Seq. 5
33 + 0	83 + 7.8	33 + .1	83 + .7	
34 + 0	84 + 2.8	34 + .1	84 + 1.3	
35 + 0	85 + .4	35 + 0	85 + 1.7	
36 + 0	86 + 1.2	36 + 0	86 + 2.0	
37 + 0	87 + 2.1	37 - .1	87 + .4	
38 + 0	88 + .3	38 - .1	88 + .7	
39 - .8	89 + 4.5	39 - .1	89 + .6	
40 + 0	90 + 9.1	40 - .1	90 + 1.5	
41 + 0	91 + .2	41 - .1	91 + 1.9	
42 + 0	92 + .1	42 - .1	92 + 2.1	
43 + 0	93 + .9	43 - .1	93 + .3	
44 + 0	94 + 1.4	44 - .1	94 + .8	
45 + 0	95 + 2.0	45 - .1	95 + 1.5	
46 + 0	96 + 2.5	46 - .1	96 + 2.0	
47 + 0	97 + 2.1	47 - .1	97 + 1.7	
48 + 0	98 + .1	48 - .1	98 + 2.0	
49 + 0	99 + .2	49 - .1	99 + 2.2	
50 + 0	100 + .2	50 - .1	100 + .1	

2534 .10 0° .15 0 10.0 +2.5° 1.048 2056.6 .002333

a) 1 + .1	51 + .3	b) 1 + 0	51 + .1	c) 1 + .2
2 + .2	52 - 3.2	2 + .1	52 - 3.0	2 - 11.4
3 + .2	53 - 3.5	3 + .1	53 - 3.3	3 - 20.0
4 - 1.4	54 - .8	4 + .1	54 - 1.4	4 - 24.5
5 + .1	55 - .8	5 + .1	55 - .9	5 - 24.6
6 + .1	56 - 1.5	6 + .2	56 - 2.0	6 - 20.2
7 + .1	57 - 1.2	7 + .2	57 - 1.6	7 + 13.1
8 + .1	58 - 1.2	8 + .2	58 - 1.3	8 + 23.9
9 + .1	59 - 1.8	9 + .2	59 - 1.6	9 - 15.2
10 + .3	60 - 1.5	10 + .5	60 - 1.5	10 - 23.7
11 + .1	61 - 1.6	11 + 3.1	61 - 1.6	11 - 7.5
12 + .1	62 - 2.3	12 - .1	62 - 1.6	12 - 14.1
13 + 0	63 - 1.8	13 + .2	63 - 1.3	13 - 25.2
14 + 0	64 - 1.4	14 + 2.6	64 - .6	14 - 21.2
15 + 0	65 - 1.1	15 + .2	65 + 1.0	15 - 13.7
16 + 0	66 - 1.7	16 + .4	66 + .6	16 + 4.6
17 + 0	67 - 1.6	17 + .4	67 + 2.1	17 + 13.3
18 + 0	68 - 1.1	18 + .4	68 + 2.3	18 - 13.7
19 + 0	69 - .8	19 + .4	69 + .7	19 - 20.9
20 + 0	70 - 1.7	20 + .4	70 - 1.2	20 + .2
21 + 0	71 - 1.4	21 + .1	71 - 1.5	21 - 2.9
22 + 0	72 - .7	22 + .2	72 - 1.2	22 - 8.4
23 + 0	73 - .3	23 + .4	73 - .6	23 - 14.4
24 + 0	74 - 1.3	24 + 3.4	74 - 1.1	24 - 16.7
25 + 0	75 - .6	25 + .1	75 + .4	25 - 2.2
26 + 0	76 + .5	26 + .2	76 + 2.2	26 + 1.9
27 + 0	77 + 1.1	27 + .3	77 + 4.4	27 + 2.5
28 + 0	78 + .1	28 + .4	78 + 5.0	28 - 1.9
29 + 0	79 + .5	29 + .4	79 + 5.1	29 - 5.1
30 + 0	80 + 1.3	30 + .4	80 + 3.0	30 + .2
31 + 0	81 + 1.6	31 + .4	81 + 1.1	
32 + 0	82 + 1.8	32 + .4	82 + 1.2	
33 + 0	83 + 5.7	33 + .4	83 + 1.2	
34 + 0	84 + 1.0	34 + .4	84 + 1.9	
35 + 0	85 + 1.4	35 + .4	85 + 2.3	
36 + .1	86 + 1.7	36 - .1	86 + 2.4	
37 + .1	87 + 1.9	37 + 0	87 + 2.7	
38 + .1	88 + 1.8	38 + .1	88 + 1.7	
39 + .1	89 + 6.3	39 + .1	89 + 1.8	
40 + .1	90 + 2.8	40 + .1	90 + 2.1	
41 + .1	91 + .9	41 + 0	91 + 2.3	
42 + .1	92 + .1	42 + .1	92 + 3.3	
43 + .1	93 + 1.2	43 + .1	93 + 1.8	
44 + .1	94 + 1.8	44 + .2	94 + 2.0	
45 + .2	95 + 2.1	45 + .2	95 + 2.1	
46 + .2	96 + 2.0	46 + 0	96 + 2.5	
47 + .2	97 + 1.9	47 + .1	97 + 2.2	
48 + .2	98 + .1	48 + .1	98 + 2.5	
49 + .2	99 + .1	49 + .1	99 + 2.6	
50 + .2	100 + .1	50 + .1	100 + .1	

Seq. 5

2533 .10 0° .15 0 10.0 0° 1.048 2056.6 .002333

a) 1 + .1	51 + .1	b) 1 + 0	51 + .1	c) 1 + .1
2 + .3	52 - 3.1	2 + 0	52 - 2.8	2 - 6.7
3 + .3	53 - 3.6	3 + 0	53 - 3.6	3 - 13.7
4 + .3	54 - .8	4 + 0	54 - 1.5	4 - 20.7
5 + .3	55 - .6	5 + 0	55 - .8	5 - 22.8
6 + .3	56 - 1.1	6 + 0	56 - 1.4	6 - 12.5
7 + .3	57 - .8	7 + 0	57 - .4	7 + 5.2
8 + .3	58 - 1.4	8 + 0	58 - .2	8 + 11.4
9 + .3	59 - 1.9	9 + 0	59 - .7	9 - 5.7
10 + .4	60 - 1.2	10 + 0	60 - 1.4	10 - 17.4
11 + .1	61 - 1.2	11 + 3.8	61 - 1.8	11 - 7.6
12 + .1	62 - 2.0	12 - .1	62 - 1.7	12 - 15.1
13 + .1	63 - 1.5	13 + .1	63 - 1.4	13 - 23.0
14 + .2	64 - .7	14 + 2.5	64 - 1.1	14 - 19.1
15 + .2	65 - .5	15 - .1	65 + .2	15 - 16.4
16 + 0	66 - 1.5	16 - .1	66 + 1.3	16 + 6.0
17 + .2	67 - 1.3	17 - .1	67 + 1.7	17 + 16.3
18 + .1	68 - .3	18 + .1	68 + 1.2	18 - 13.7
19 + .1	69 - .2	19 + .1	69 + .3	19 - 19.9
20 + .1	70 - 1.1	20 + 0	70 - .8	20 + .2
21 + .2	71 - .8	21 + 0	71 - 1.0	21 - 6.9
22 + .2	72 - .4	22 + .2	72 - .6	22 - 13.3
23 + .2	73 + .7	23 + .3	73 - .4	23 - 21.1
24 + .3	74 + .1	24 + 3.2	74 - .8	24 - 23.3
25 + .3	75 + .3	25 + .1	75 + .4	25 - 9.6
26 + .3	76 + .5	26 + 0	76 + 1.1	26 + 3.4
27 + .3	77 + 1.3	27 + 0	77 + 1.8	27 + 5.3
28 + .3	78 + 1.0	28 + 0	78 + 2.0	28 - 5.8
29 + .3	79 + 1.1	29 + .1	79 + 1.8	29 - 10.3
30 + .3	80 + 1.6	30 + .1	80 + 1.3	30 + .2
31 + .3	81 + 1.8	31 + .1	81 + 1.0	
32 + .3	82 + 1.9	32 + .3	82 + 1.5	
33 + .3	83 + 4.1	33 + .3	83 + 1.7	
34 + .3	84 + .9	34 + .3	84 + 1.9	
35 + .3	85 + 1.7	35 + .3	85 + 2.1	
36 + .3	86 + 2.0	36 - .1	86 + 2.2	
37 + .3	87 + 2.4	37 + 0	87 + 5.4	
38 + .3	88 + 2.2	38 + 0	88 + 1.7	
39 + .3	89 + 4.9	39 + 0	89 + 2.0	
40 + .3	90 + 2.2	40 + 0	90 + 2.2	
41 + .1	91 + 2.0	41 - .1	91 + 2.3	
42 + .1	92 + .1	42 - .1	92 + 4.8	
43 + .1	93 + 2.4	43 - .1	93 + 2.0	
44 + .1	94 + 2.6	44 + 0	94 + 1.9	
45 + .1	95 + 2.7	45 + 0	95 + 2.4	
46 + .1	96 + 2.8	46 + 0	96 + 2.6	
47 + .1	97 + 2.0	47 + 0	97 + 2.4	
48 + .1	98 + .1	48 + 0	98 + 2.5	
49 + .1	99 + .2	49 + 0	99 + 2.4	
50 + .1	100 + .2	50 + 0	100 + .1	

Seq. 5

2536 .10 0° .15 0 10.0 -2.5° 1.048 2056.6 .002333

a) 1 + 0	51 + .1	b) 1 + .2	51 + .1	c) 1 + .1
2 + 0	52 - 3.4	2 + .2	52 - 3.5	2 - 2.8
3 + 0	53 - 3.9	3 + .2	53 - 3.6	3 - 8.8
4 + 0	54 - 2.0	4 + .2	54 - 2.4	4 - 14.7
5 + 0	55 - 1.2	5 + .2	55 - 1.3	5 - 18.0
6 + 0	56 - 1.2	6 + .2	56 - 1.8	6 - 3.4
7 + 0	57 - 1.1	7 + .2	57 + .4	7 + 4.0
8 + 0	58 - 2.3	8 + .2	58 + 1.9	8 + 6.1
9 + .2	59 - 2.2	9 + .2	59 + 2.1	9 - .7
10 + .4	60 - 1.6	10 + .2	60 + 1.0	10 - 8.8
11 - .1	61 - 1.4	11 + 2.4	61 - 1.1	11 - 8.5
12 - .1	62 - 2.4	12 + 0	62 - 2.1	12 - 17.2
13 - .1	63 - 1.8	13 + .2	63 - 2.2	13 - 24.5
14 - .1	64 - 1.2	14 + 2.4	64 - 1.4	14 - 19.1
15 + 0	65 - 1.0	15 + .2	65 + .2	15 - 18.4
16 + 0	66 - 1.9	16 + .1	66 + .6	16 + 7.9
17 + 0	67 - 1.6	17 + .1	67 + 1.1	17 + 17.7
18 + 0	68 - .7	18 + .1	68 + 1.3	18 - 17.2
19 + 0	69 + .3	19 + .2	69 + .2	19 - 23.7
20 + .1	70 - 1.3	20 + .2	70 - 1.2	20 + .2
21 + 0	71 - 1.3	21 + .1	71 - 1.6	21 - 10.4
22 + 0	72 + .1	22 + .1	72 - .8	22 - 21.0
23 + 0	73 + .1	23 + .2	73 - .5	23 - 27.8
24 + .1	74 + .1	24 + 3.3	74 - .5	24 - 26.6
25 + .1	75 + 1	25 + .1	75 - .5	25 - 20.7
26 + 0	76 + .2	26 + .2	76 + .2	26 + 8.5
27 + 0	77 + .8	27 + .3	77 + .5	27 + 14.0
28 + .1	78 + 1.0	28 + .2	78 + .7	28 - 13.0
29 + .1	79 + 1.1	29 + .3	79 + 1.0	29 - 20.8
30 + .1	80 + 1.3	30 + .3	80 + 1.2	30 + .2
31 - .1	81 + 1.4	31 + .3	81 + 1.2	
32 + 0	82 + 1.5	32 + .3	82 + 1.3	Seq. 5
33 + 0	83 + 2.8	33 + .3	83 + 1.4	
34 + 0	84 + .6	34 + .3	84 + 1.5	
35 + 0	85 + 1.2	35 + .3	85 + 1.7	
36 + 0	86 + 1.6	36 + .3	86 + 1.7	
37 + 0	87 + 1.9	37 + .3	87 + 7.8	
38 + 0	88 + 2.0	38 + .3	88 + 1.3	
39 + 0	89 + 2.3	39 + .7	89 + 3.5	
40 + 0	90 + 1.1	40 + 0	90 + 1.9	
41 + .1	91 + 1.6	41 + .1	91 + 1.9	
42 + .1	92 + .1	42 + .1	92 + 6.0	
43 + .1	93 + 1.9	43 + .1	93 + 2.2	
44 + .1	94 + 1.9	44 + .1	94 + 1.3	
45 + .1	95 + 2.0	45 + .1	95 + 1.9	
46 + 0	96 + 2.0	46 + .1	96 + 2.0	
47 + 0	97 + 1.6	47 + .1	97 + 2.2	
48 + 0	98 + .2	48 + .1	98 + 2.2	
49 + 0	99 + .2	49 + .1	99 + 2.3	
50 + 0	100 + .1	50 + .1	100 + .1	

2537 .10 0° .15 0 10.0 -5.0° 1.048 2056.6 .002333

a) 1 - .1	51 + .1	b) 1 + 0	51 + .2	c) 1 + .1
2 - .1	52 - 3.5	2 + 0	52 - 3.9	2 - .9
3 + 0	53 - 3.8	3 + 0	53 - 4.2	3 - 6.0
4 + 0	54 - 3.7	4 + 0	54 - 3.3	4 - 9.3
5 + 0	55 - 2.6	5 + 0	55 - 2.4	5 - 12.0
6 - .1	56 - 1.5	6 + 0	56 - 2.9	6 + .2
7 + 0	57 - .9	7 - .1	57 - 1.6	7 + 2.5
8 + .1	58 - 3.6	8 - .1	58 + 1.3	8 + 3.2
9 + .2	59 - 3.5	9 - .1	59 + 3.7	9 + .2
10 + .3	60 - 1.9	10 - .1	60 + 5.4	10 - 5.3
11 + 0	61 - 1.3	11 + .2	61 + .5	11 - 10.0
12 + 0	62 - 3.4	12 + 0	62 - 1.7	12 - 17.1
13 + 0	63 - 2.8	13 + 0	63 - 2.9	13 - 25.7
14 + .1	64 - 1.6	14 + .6	64 - 1.6	14 - 21.5
15 + .2	65 - .8	15 + 0	65 + .2	15 - 18.7
16 + .2	66 - 3.0	16 - .1	66 + .9	16 + 7.6
17 + .2	67 - 2.4	17 - .1	67 + 2.3	17 + 17.8
18 + 0	68 - 1.0	18 - .1	68 + 2.5	18 - 19.9
19 + 0	69 - .6	19 - .1	69 + .4	19 - 24.2
20 + 0	70 - 1.8	20 - .1	70 - 1.9	20 + .2
21 + 0	71 - 1.8	21 - .1	71 - 2.4	21 - 13.4
22 + 0	72 - .9	22 - .1	72 - 2.2	22 - 25.4
23 + .1	73 - .4	23 - .1	73 - 1.7	23 - 24.6
24 + .1	74 - .3	24 + 1.8	74 - 1.6	24 - 23.9
25 + .1	75 - .7	25 - .1	75 - 1.5	25 - 19.9
26 + .1	76 - .4	26 - .1	76 - 1.1	26 + 18.2
27 + .1	77 + 1.4	27 - .1	77 + .2	27 + 21.4
28 + .1	78 + 1.8	28 - .1	78 + .2	28 - 19.5
29 + .1	79 + .8	29 - .1	79 + .2	29 - 19.3
30 + .2	80 + .9	30 + .2	80 + .2	30 + .2
31 + .2	81 + 2.1	31 + 0	81 + .2	
32 + .2	82 + 1.8	32 + 0	82 + .4	Sig. 3
33 + .1	83 + .1	33 + 0	83 + .6	
34 + .1	84 + .4	34 + 0	84 + .7	
35 + .2	85 + .6	35 + 0	85 + 1.1	
36 - .1	86 + 1.8	36 + 0	86 + 1.5	
37 + 0	87 + 1.3	37 + 0	87 + 7.5	
38 + 0	88 + 1.3	38 + .1	88 + .1	
39 + 0	89 + .6	39 + .2	89 + 9.4	
40 + 0	90 + 1.0	40 + 0	90 + 1.1	
41 + .1	91 + .1	41 + 0	91 + 1.8	
42 + .1	92 + 1.9	42 - .1	92 + 5.6	
43 + .1	93 + 1.7	43 - .1	93 + 4.2	
44 + .1	94 + 1.8	44 - .1	94 + .1	
45 + .1	95 + 2.1	45 - .1	95 + 1.3	
46 - .1	96 + 1.8	46 - .1	96 + 2.4	
47 + 0	97 + .1	47 - .1	97 + 1.4	
48 + 0	98 + .1	48 - .1	98 + 1.9	
49 + 0	99 + .1	49 - .1	99 + 2.1	
50 + 0	100 + .1	50 - .1	100 + .1	

2588 .10 0° .10 0 10.0 +5.0° 1.048 2061.5 .002316

a) 1 + 0	51 + .1	b) 1 + .1	51 + .1	c) 1 + .2
2 + 0	52 - 2.9	2 + .1	52 - 3.2	2 - 11.1
3 + 0	53 - 3.6	3 + .1	53 - 3.8	3 - 21.7
4 - 1.2	54 + 1.9	4 + .1	54 + .2	4 - 21.7
5 + 0	55 + .6	5 + .1	55 + .2	5 - 21.3
6 + 0	56 + .2	6 + .1	56 - 1.7	6 - 18.7
7 + 0	57 + .2	7 + 0	57 - 1.3	7 - 20.2
8 + 0	58 + .2	8 + 0	58 + .2	8 + 29.0
9 + 0	59 - .3	9 + 0	59 - .7	9 - 15.7
10 + 0	60 - .5	10 + 0	60 - .3	10 - 20.6
11 + 0	61 - .4	11 + .8	61 - .8	11 - 5.9
12 + 0	62 - 1.4	12 + 0	62 - .8	12 - 12.3
13 + 0	63 - 1.2	13 + 0	63 - .8	13 - 23.8
14 + 0	64 + .3	14 + .8	64 - 1.8	14 - 22.8
15 + 0	65 + .6	15 + .1	65 + .2	15 - 12.4
16 - .1	66 - 1.6	16 + .1	66 + 1.4	16 + 1.7
17 - .1	67 - 1.1	17 + 0	67 + 2.4	17 + 9.1
18 - .1	68 + .4	18 + 0	68 + 3.0	18 - 9.4
19 - .1	69 + .9	19 + 0	69 + 2.5	19 - 18.5
20 - .1	70 - 1.8	20 + 0	70 + .1	20 + 2
21 - .1	71 + .4	21 + 0	71 - 1.2	21 - 1.6
22 - .1	72 + 1.6	22 + 0	72 - .8	22 - 6.4
23 - .1	73 + 1.6	23 + 0	73 + .2	23 - 10.3
24 - .1	74 - 1.8	24 + 0	74 - 2.1	24 - 10.7
25 + 0	75 + 1.2	25 + 0	75 - 2.5	25 + .2
26 + 0	76 + 2.3	26 + 0	76 - 1.9	26 + .5
27 + 0	77 + 2.9	27 + 0	77 + .7	27 + .9
28 - .1	78 - 1.5	28 + 0	78 + 3.3	28 - 2.3
29 + 0	79 + 2.3	29 + 0	79 + 8.0	29 - 2.9
30 + 0	80 + 3.6	30 + 0	80 + 10.5	30 + .1
31 + 0	81 + 3.6	31 + 0	81 + 2.8	
32 - 2.2	82 + 3.6	32 + 0	82 + 2.0	Seq. 5
33 + 0	83 + 8.6	33 + 0	83 + 2.2	
34 + 0	84 + 4.7	34 + 0	84 + 2.5	
35 + 0	85 + 2.0	35 + 0	85 + 2.6	
36 + 0	86 + 2.9	36 + 0	86 + 2.9	
37 - .1	87 + 3.4	37 + 0	87 + 1.7	
38 - .1	88 - .2	38 + 0	88 + 2.0	
39 - 1.7	89 + 2.9	39 + 0	89 + 2.1	
40 + 0	90 + 11.5	40 + 0	90 + 2.5	
41 + 0	91 + 2.2	41 + 0	91 + 3.0	
42 + 0	92 + .7	42 + 0	92 + .5	
43 + 0	93 + 4.4	43 + 0	93 + 1.8	
44 + 0	94 + 3.8	44 + 0	94 + 2.3	
45 + 0	95 + 3.9	45 + 0	95 + 2.7	
46 + 0	96 + 4.0	46 + 0	96 + 3.0	
47 + 0	97 + 3.1	47 + 0	97 + 3.1	
48 + 0	98 + .4	48 + 0	98 + 3.1	
49 + 0	99 + .6	49 + 0	99 + 3.5	
50 + 0	100 + .2	50 + 0	100 + .1	

2589 .10 0° .10 0 10.0 +2.5° 1.049 2061.5 .002316

a) 1	.1	51	.2	b) 1	.1	51	.1	c) 1	.2
2	.1	52	.3.2	2	.1	52	.3.3	2	- 7.3
3	.1	53	.4.1	3	.1	53	.3.8	3	- 16.0
4	- 2.1	54	.1.2	4	.1	54	.1.0	4	- 2.8
5	.1	55	.9	5	.1	55	.2	5	- 22.3
6	.1	56	.2	6	.1	56	.1.1	6	- 18.8
7	.1	57	.3	7	.1	57	.2	7	+ 13.6
8	.1	58	.5	8	.1	58	.5	8	+ 21.6
9	.1	59	.1	9	.1	59	.5	9	- 9.1
10	.1	60	.1	10	.1	60	.2	10	- 19.8
11	.8	61	.1	11	2.0	61	.1	11	- 4.6
12	.1	62	.2	12	.1	62	.2	12	- 10.7
13	.1	63	.1	13	.1	63	.3	13	- 20.3
14	.1	64	.2	14	1.1	64	1.2	14	- 19.9
15	.1	65	.4	15	0	65	.3	15	- 12.1
16	.1	66	.2	16	0	66	1.4	16	+ 5.4
17	.1	67	.2	17	0	67	3.1	17	+ 14.1
18	- 2.0	68	.5	18	0	68	3.9	18	- 9.6
19	.1	69	.7	19	0	69	2.5	19	- 18.6
20	.1	70	.2	20	0	70	.4	20	.2
21	.1	71	.3	21	0	71	.2	21	- 1.8
22	.1	72	1.0	22	0	72	.2	22	- 7.9
23	.1	73	1.3	23	0	73	.8	23	- 13.3
24	.1	74	.2	24	.2	74	1.3	24	- 16.1
25	.6	75	.7	25	0	75	1.4	25	.1
26	.1	76	1.8	26	0	76	.6	26	+ 2.1
27	.1	77	2.3	27	0	77	3.1	27	+ 3.1
28	.1	78	1.1	28	0	78	5.4	28	.2
29	.1	79	2.1	29	0	79	6.1	29	- 4.5
30	.1	80	2.9	30	0	80	4.5	30	.1
31	.1	81	3.1	31	0	81	2.7		
32	- 1.3	82	3.2	32	0	82	2.7	Seq. 5	
33	0	83	7.0	33	0	83	2.6		
34	0	84	2.1	34	0	84	3.0		
35	0	85	2.6	35	0	85	3.2		
36	0	86	3.5	36	0	86	3.4		
37	0	87	3.6	37	0	87	3.7		
38	0	88	.1	38	0	88	3.5		
39	- 2.5	89	6.1	39	0	89	3.5		
40	.1	90	5.9	40	0	90	3.5		
41	.1	91	2.4	41	0	91	3.6		
42	.1	92	.1	42	0	92	4.3		
43	0	93	4.1	43	0	93	3.0		
44	0	94	3.6	44	0	94	3.3		
45	0	95	3.8	45	0	95	3.6		
46	0	96	3.9	46	0	96	3.8		
47	0	97	2.7	47	0	97	3.9		
48	0	98	.1	48	0	98	3.9		
49	0	99	.1	49	0	99	3.9		
50	0	100	.1	50	0	100	.1		

	2590	.10	0°	.10	0	10.0	0°	1.049	2061.5	.002316
a) 1	+ 0		51	+ .2	b) 1	: 0	51	+ .2	c) 1	+ .1
2	+ 0		52	- 3.6	2	: 0	52	- 3.8	2	- 4.0
3	+ 0		53	- 3.7	3	: 0	53	- 3.9	3	- 10.7
4	- 2.6		54	+ 1.2	4	: 0	54	- 2.4	4	- 19.3
5	+ 0		55	+ 1.5	5	: 0	55	+ .2	5	- 19.8
6	- .1		56	+ 1.5	6	: 0	56	+ .2	6	- 11.1
7	- .1		57	+ 1.5	7	: 0	57	+ .2	7	+ 6.7
8	- .1		58	+ 1.0	8	: 0	58	+ 1.2	8	+ 12.0
9	- .1		59	+ .3	9	: 0	59	+ 1.2	9	- 2.4
10	- .1		60	+ .6	10	: 0	60	+ .9	10	- 14.3
11	- .1		61	+ .7	11	: 1.6	61	+ .1	11	- 5.7
12	- .1		62	+ .4	12	: 0	62	+ .1	12	- 12.8
13	- .1		63	+ .5	13	: 0	63	+ .2	13	- 20.3
14	- .1		64	+ .9	14	: .8	64	- 1.9	14	- 17.3
15	- .1		65	+ 1.2	15	: .1	65	+ .2	15	- 14.7
16	- .1		66	+ .2	16	: .1	66	+ .9	16	+ 7.3
17	- .1		67	+ .5	17	: .1	67	+ 2.3	17	+ 17.1
18	- 2.1		68	+ 1.2	18	: 0	68	+ 3.9	18	- 11.4
19	- .1		69	+ 1.4	19	: 0	69	+ 2.1	19	- 18.1
20	- .1		70	+ .6	20	: 0	70	+ .3	20	+ .2
21	- .1		71	+ 1.6	21	: 0	71	+ .3	21	- 5.3
22	- .1		72	+ 1.3	22	: 0	72	+ .1	22	- 10.4
23	- .1		73	+ 1.8	23	: 0	73	+ .8	23	- 19.0
24	- .1		74	+ 1.7	24	: 1.1	74	+ .9	24	- 20.2
25	- 1.3		75	+ 1.9	25	: 0	75	+ .2	25	- 8.8
26	- .1		76	+ 2.3	26	: 0	76	+ .8	26	+ 3.0
27	- .1		77	+ 3.1	27	: 0	77	+ 2.1	27	+ 5.4
28	- .1		78	+ 2.8	28	: 0	78	+ 2.8	28	- 1.6
29	- .1		79	+ 2.9	29	: 0	79	+ 2.9	29	- 8.5
30	- .1		80	+ 3.4	30	: 0	80	+ 2.9	30	+ .1
31	- .1		81	+ 3.5	31	: 0	81	+ 2.9		Seq. 5
32	- .1		82	+ 3.7	32	: 0	82	+ 2.9		
33	- .1		83	+ 5.9	33	: 0	83	+ 3.2		
34	- .1		84	+ 2.0	34	: 0	84	+ 3.4		
35	- .1		85	+ 3.6	35	: 0	85	+ 3.5		
36	- .1		86	+ 3.7	36	: 0	86	+ 3.6		
37	- .1		87	+ 3.9	37	: 0	87	+ 6.2		
38	- .1		88	+ 1.4	38	: 0	88	+ 3.1		
39	- .1		89	+ 6.3	39	: 0	89	+ 3.4		
40	- .1		90	+ 3.5	40	: 0	90	+ 3.6		
41	- .1		91	+ 3.7	41	: 0	91	+ 3.8		
42	- .1		92	+ .1	42	: 0	92	+ 5.2		
43	- .1		93	+ 3.9	43	: 0	93	+ 3.1		
44	- .1		94	+ 4.0	44	: 0	94	+ 3.4		
45	- .1		95	+ 4.0	45	: 0	95	+ 3.8		
46	- .1		96	+ 4.1	46	: 0	96	+ 3.9		
47	- .1		97	+ 3.8	47	: 0	97	+ 4.1		
48	- .1		98	+ .1	48	: 0	98	+ 4.1		
49	- .1		99	+ .1	49	: 0	99	+ 4.1		
50	- .1		100	+ .1	50	: 0	100	+ .1		

2591	.10	0°	.10	0	10.0	-2.5°	1.048	2061.5	.002316
a) 1 + 0		51 + .2		b) 1 - .1	51 + .2		c) 1 + .1		
2 + 0		52 - 4.4		2 - .1	52 - 4.3		2 - 2.4		
3 + 0		53 - 4.4		3 - .1	53 - 4.5		3 - 7.8		
4 - 2.8		54 + .1		4 - .1	54 - 3.9		4 - 15.4		
5 + 0		55 + .3		5 - .1	55 - 3.3		5 - 16.8		
6 + 0		56 + .2		6 - .1	56 - 3.3		6 - 3.6		
7 + 0		57 + .2		7 - .1	57 - 1.6		7 + 3.7		
8 + 0		58 + .1		8 - .1	58 + 1.9		8 + 5.6		
9 + 0		59 + .1		9 - .1	59 + 2.1		9 + .1		
10 + 0		60 + .1		10 - .1	60 + 1.9		10 - 9.6		
11 - .8		61 + .1		11 + .7	61 + .1		11 - 9.1		
12 - .1		62 + .9		12 - .1	62 + .1		12 - 15.8		
13 - .1		63 + .2		13 - .1	63 + .1		13 - 21.7		
14 - .1		64 + .2		14 - .1	64 - 2.4		14 - 20.2		
15 - .1		65 + .2		15 + 0	65 + .2		15 - 18.5		
16 - .1		66 + .2		16 + 0	66 + .3		16 + 8.1		
17 - .1		67 + .2		17 + 0	67 + 1.2		17 + 17.1		
18 - .9		68 + .2		18 + 0	68 + 2.2		18 - 15.2		
19 + 0		69 + .2		19 + 0	69 + 1.6		19 - 22.4		
20 + 0		70 + .2		20 + 0	70 + .2		20 + .1		
21 + 0		71 + .1		21 + 0	71 + .2		21 - 7.2		
22 + 0		72 + .2		22 - .1	72 + .2		22 - 16.2		
23 + 0		73 + .3		23 - .1	73 + .3		23 - 25.9		
24 - .1		74 + .5		24 + 2.1	74 + .2		24 - 25.8		
25 - 1.5		75 + .7		25 - .1	75 + .2		25 - 19.6		
26 - .1		76 + .8		26 - .1	76 + .4		26 + 7.3		
27 - .1		77 + 1.3		27 - .1	77 + .9		27 + 10.2		
28 - .1		78 + 1.6		28 - .1	78 + 1.3		28 - 7.2		
29 - .1		79 + 1.7		29 - .1	79 + 1.7		29 - 17.4		
30 - .1		80 + 1.8		30 - .1	80 + 1.9		30 + .1		
31 - .1		81 + 2.0		31 - .1	81 + 2.0				
32 - .1		82 + 2.1		32 - .1	82 + 2.2		Seq. 5		
33 - .1		83 + 3.4		33 - .1	83 + 2.4				
34 - .1		84 + .5		34 - .1	84 + 2.5				
35 - .1		85 + 1.3		35 - .1	85 + 2.6				
36 - .1		86 + 1.8		36 - .1	86 + 2.8				
37 - .1		87 + 2.1		37 - .1	87 + 7.7				
38 - .1		88 + .4		38 - .1	88 + 2.1				
39 - .1		89 + 2.0		39 - .1	89 + 4.6				
40 - .1		90 + 1.9		40 - .1	90 + 2.6				
41 - .1		91 + 2.1		41 - .1	91 + 3.0				
42 - .1		92 + .1		42 - .1	92 + 5.5				
43 - .1		93 + 2.0		43 - .1	93 + 4.7				
44 - .1		94 + 2.7		44 - .1	94 + 2.9				
45 - .1		95 + 2.9		45 - .1	95 + 3.0				
46 - .1		96 + 3.0		46 - .1	96 + 3.1				
47 - .1		97 + 2.9		47 - .1	97 + 3.2				
48 - .1		98 + .1		48 - .1	98 + 3.2				
49 - .1		99 + .1		49 - .1	99 + 3.3				
50 - .1		100 + .1		50 - .1	100 + .1				

2592	.10	0°	.10	0	10.0	-5.0°	1.048	2061.5	.002316
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a) 1 - .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1					
2 - .1	52 - 4.3	2 - .1	52 - 4.3	2 + .1					
3 - .1	53 - 4.3	3 - .1	53 - 4.3	3 - 5.9					
4 - 4.0	54 - 4.1	4 - .1	54 - 3.8	4 - 10.8					
5 + 0	55 + .2	5 - .1	55 - 4.0	5 - 12.3					
6 + 0	56 + .2	6 - .1	56 - 4.5	6 + .1					
7 + 0	57 + .2	7 - .1	57 - 4.3	7 + 2.0					
8 + 0	58 - 3.1	8 - .1	58 - 1.1	8 + 3.0					
9 + 0	59 - 2.5	9 - .1	59 + 3.5	9 + 1.0					
10 + .5	60 + .2	10 - .1	60 + 5.3	10 - 2.7					
11 - 3.2	61 + .2	11 - .1	61 + 2.1	11 - 8.7					
12 + 0	62 - 2.8	12 - .1	62 + .1	12 - 17.0					
13 + 0	63 - 2.2	13 - .1	63 - .8	13 - 25.0					
14 + 0	64 + .1	14 - .1	64 - 3.3	14 - 21.6					
15 + 0	65 + .1	15 - .1	65 + .2	15 - 19.2					
16 + 0	66 - 2.0	16 - .1	66 + .4	16 + 6.8					
17 + 0	67 - 1.9	17 - .1	67 + 1.3	17 + 15.0					
18 - 1.9	68 + .2	18 - .1	68 + 2.0	18 - 17.1					
19 - .1	69 + .2	19 - .1	69 + 2.0	19 - 24.1					
20 - .1	70 - .2	20 - .1	70 + .1	20 + .2					
21 - .1	71 + .1	21 - .1	71 - 1.4	21 - 13.9					
22 - .1	72 + .1	22 - .1	72 - 1.4	22 - 24.7					
23 - .1	73 + .1	23 - .1	73 + .2	23 - 26.9					
24 - .1	74 + .2	24 + 2.1	74 - .9	24 - 26.6					
25 - 1.5	75 + .3	25 - .1	75 + .2	25 - 3.9					
26 + 0	76 + .3	26 - .1	76 + .2	26 + 16.4					
27 + 0	77 + .7	27 - .1	77 + .3	27 + 19.6					
28 + 0	78 + 1.7	28 - .1	78 + .5	28 + 17.6					
29 + 0	79 + 1.8	29 - .1	79 + .6	29 + 22.7					
30 + 0	80 + 1.8	30 - .1	80 + .7	30 + .1					
31 + 0	81 + 1.8	31 - .1	81 + .8						
32 + 0	82 + 1.9	32 - .1	82 + .9						
33 + 0	83 + 2.2	33 - .1	83 + 1.1						
34 + 0	84 + 1.2	34 - .1	84 + 1.4						
35 + 0	85 + 1.2	35 - .1	85 + 1.8						
36 - .1	86 + 1.2	36 - .1	86 + 2.0						
37 - .1	87 + 1.6	37 - .1	87 + 5.2						
38 - .1	88 + 1.0	38 - .1	88 + 1.8						
39 - .1	89 + 1.0	39 - .1	89 + 11.1						
40 - .1	90 + 1.1	40 + 0	90 + 2.7						
41 - .1	91 + 1.3	41 + 0	91 + 2.8						
42 - .1	92 + .2	42 + 0	92 + 4.0						
43 - .1	93 + 1.4	43 + 0	93 + 5.7						
44 - .1	94 + 1.9	44 + 0	94 + 1.0						
45 - .1	95 + 2.0	45 + 0	95 + 1.7						
46 - .1	96 + 2.3	46 + 0	96 + 2.5						
47 - .1	97 + 2.4	47 - .1	97 + 2.6						
48 - .1	98 + .1	48 - .1	98 + 2.6						
49 - .1	99 + .1	49 - .1	99 + 2.7						
50 - .1	100 + .1	50 - .1	100 + .1						

Seq. 5

2633 .10 0° .05 0 10.0 +2.5° 1.049 2061.5 .002317

a) 1 + 0	51 . .1	b) 1 + 0	51 . .1	c) 1 . .1
2 + 0	52 - 6.6	2 + 0	52 - 4.1	2 + 4.4
3 + 0	53 - 6.8	3 + 0	53 - 4.4	3 - 3.2
4 - 3.5	54 + 7.0	4 + 0	54 + .2	4 - 11.0
5 - 3.0	55 + 6.8	5 + 0	55 + .8	5 - 12.7
6 - .1	56 + 6.6	6 + 0	56 + .9	6 + .2
7 - .1	57 + 6.6	7 + 0	57 + 3.7	7 - 15.6
8 - .1	58 + 6.6	8 + 0	58 + 6.0	8 - 20.2
9 - .1	59 + 5.9	9 + 0	59 + 6.8	9 - 5.8
10 + 7.5	60 + 5.9	10 + 0	60 + 7.1	10 - 7.4
11 - 2.1	61 + 5.9	11 + 3.1	61 + 7.2	11 + .7
12 + 0	62 + 5.3	12 + .1	62 + 7.4	12 - 3.7
13 + 0	63 + 5.4	13 + .1	63 + 7.8	13 - 11.1
14 + 0	64 + 5.7	14 + .6	64 + 3.8	14 - 8.1
15 + 0	65 + 6.0	15 + .1	65 + 3.8	15 - 7.1
16 + 0	66 + 5.8	16 + .1	66 + .2	16 - 16.0
17 + 0	67 + 5.9	17 + .1	67 + 6.3	17 - 26.4
18 - 4.9	68 + 6.1	18 + 0	68 + 9.6	18 - 4.4
19 + 0	69 + 6.3	19 + 0	69 + 9.8	19 - 8.9
20 - .1	70 + 5.8	20 + 0	70 + 7.5	20 + .2
21 + 0	71 + 6.0	21 + 0	71 + 7.4	21 + 2.2
22 - .1	72 + 6.3	22 + 0	72 + 7.8	22 - 1.8
23 - .1	73 + 6.8	23 + 0	73 + 8.3	23 - 8.8
24 - .1	74 + 6.3	24 + 1.1	74 + 3.4	24 - 10.2
25 - 4.1	75 + 6.9	25 + .4	75 + 5.1	25 + 1.3
26 - 2.9	76 + 7.3	26 + .4	76 + 5.8	26 + 9.2
27 + 0	77 + 7.7	27 + .4	77 + 3.9	27 + 9.8
28 + 0	78 + 7.4	28 + .4	78 + 11.9	28 + 3.8
29 + 0	79 + 7.8	29 + .4	79 + 13.1	29 + .1
30 - .1	80 + 8.2	30 + .4	80 + 11.8	30 + .1
31 - .1	81 + 8.4	31 + .4	81 + 9.8	
32 - 4.8	82 + 8.5	32 + .4	82 + 10.3	Seq. 5
33 - .1	83 + 9.2	33 + .4	83 + 10.6	
34 - .1	84 + 8.2	34 + .4	84 + 10.8	
35 - .1	85 + 8.4	35 + .4	85 + 10.9	
36 - .1	86 + 8.7	36 + .1	86 + 11.0	
37 - .1	87 + 9.0	37 + .1	87 + 10.6	
38 - .1	88 + 2.2	38 + .1	88 + 10.6	
39 - 4.6	89 + 6.2	39 + .1	89 + 10.4	
40 - 3.4	90 + 9.5	40 + .1	90 + 10.7	
41 + 0	91 + 9.5	41 + .1	91 + 11.0	
42 + 0	92 + .2	42 + .1	92 + 11.8	
43 - .1	93 + 7.5	43 + .1	93 + 10.1	
44 - .1	94 + 8.5	44 + .1	94 + 10.5	
45 - .1	95 + 8.9	45 + .1	95 + 11.0	
46 - .1	96 + 9.3	46 + .1	96 + 11.2	
47 - .1	97 + 7.7	47 + .1	97 + 11.4	
48 - .1	98 + .1	48 + .1	98 + 11.4	
49 - .1	99 + .1	49 + .1	99 + 11.5	
50 - .1	100 + .1	50 + .1	100 + .1	

2634 .10 0° .05 0 10.0 0° 1.048 2061.5 .002317

a) 1 + 0	51 .2	b) 1 + .1	51 .2	c) 1 .1
2 + 0	52 - 3.8	2 + .1	52 - 3.5	2 - 3.4
3 + 0	53 - 4.5	3 + .1	53 - 3.8	3 - 3.5
4 - 3.4	54 9.7	4 + 0	54 - 3.2	4 - 11.0
5 + 0	55 9.9	5 + 0	55 - 2.0	5 - 11.8
6 + 0	56 8.9	6 + 0	56 - 1.6	6 - 3.4
7 + 0	57 8.9	7 + 0	57 4.2	7 14.8
8 + 0	58 8.9	8 + 0	58 8.3	8 19.5
9 + 0	59 8.9	9 + 0	59 3.8	9 3.6
10 + 1.3	60 8.9	10 + 0	60 9.0	10 - 7.4
11 - 2.8	61 8.9	11 + 0	61 9.0	11 - 2.9
12 + 0	62 8.5	12 + 0	62 9.3	12 - 2.1
13 - .1	63 8.5	13 + 0	63 9.4	13 - 12.4
14 - .1	64 8.8	14 + 0	64 4.6	14 - 8.5
15 - .1	65 9.0	15 + .5	65 - 2.0	15 - 5.7
16 - .1	66 7.7	16 + 0	66 1.2	16 - 14.4
17 - .1	67 8.0	17 + 0	67 8.3	17 - 22.7
18 - 2.8	68 8.9	18 + 0	68 11.7	18 - 2.8
19 - 2.4	69 9.3	19 + 0	69 11.8	19 - 9.4
20 + 0	70 8.7	20 + 0	70 9.2	20 + .2
21 - .1	71 8.8	21 + 0	71 9.1	21 - 3.6
22 + 0	72 9.1	22 + 0	72 9.4	22 - 2.2
23 + 0	73 9.3	23 + 0	73 9.9	23 - 10.2
24 + 0	74 9.4	24 + 0	74 - 2.1	24 - 13.2
25 - 2.6	75 9.6	25 + 0	75 - 2.1	25 - .1
26 + 0	76 10.2	26 + 0	76 1.7	26 - 1.9
27 + 0	77 10.5	27 + 0	77 8.6	27 - 13.1
28 - .1	78 10.5	28 + 0	78 11.0	28 - 4.7
29 - .1	79 10.6	29 + 0	79 11.6	29 - 4.2
30 - .1	80 10.0	30 + 0	80 11.5	30 - .1
31 - .1	81 10.0	31 + 0	81 11.7	
32 - 2.7	82 11.4	32 + 0	82 11.8	Seq. 5
33 - .1	83 11.6	33 + 0	83 12.0	
34 - .1	84 7.4	34 + 0	84 12.1	
35 - .1	85 11.4	35 + 0	85 12.2	
36 - .1	86 11.8	36 + 0	86 12.3	
37 - .1	87 11.9	37 + 0	87 13.8	
38 - .1	88 .9	38 + 0	88 12.1	
39 - 2.3	89 10.9	39 + 0	89 12.2	
40 - .1	90 11.2	40 + 0	90 12.3	
41 - .1	91 11.5	41 + 0	91 12.6	
42 - .1	92 .2	42 + 0	92 11.9	
43 - .1	93 11.8	43 + 0	93 12.0	
44 - .1	94 1.9	44 + 0	94 12.2	
45 - .1	95 12.0	45 + 0	95 12.5	
46 - .1	96 11.7	46 + 0	96 12.6	
47 - .1	97 8.9	47 + 0	97 12.7	
48 - .1	98 .1	48 + 0	98 2.7	
49 - ..1	99 .1	49 + 0	99 12.8	
50 - .1	100 + .1	50 + 0	100 + .1	

2635 .10 0° .05 0 10.0 ^ 2.5° 1.048 2061.5 .002317

a) 1 + .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + .1	52 + 4.0	2 - .1	52 + 4.1	2 + 2.8
3 + .1	53 + 4.1	3 - .1	53 + 4.4	3 + .1
4 - 4.5	54 + 9.0	4 - .1	54 + 4.3	4 - 8.8
5 + 0	55 + 9.7	5 - .1	55 + 6.1	5 - 11.1
6 + 0	56 + 9.4	6 - .1	56 + 6.6	6 + .3
7 + 0	57 + 9.4	7 - .1	57 + 4.4	7 + 11.1
8 + 0	58 + 7.1	8 - .1	58 + 8.9	8 + 14.5
9 + 0	59 + 8.0	9 - .1	59 + 10.3	9 + 3.8
10 + 0	60 + 8.6	10 - .1	60 + 10.5	10 + 4.0
11 - 4.8	61 + 8.7	11 - .1	61 + 7.7	11 + .5
12 + .1	62 + 7.1	12 - .1	62 + 7.7	12 + 6.5
13 + 0	63 + 8.1	13 - .1	63 + 7.9	13 + 13.6
14 + 0	64 + 8.6	14 - .1	64 + 4.0	14 + 10.5
15 + 0	65 + 8.8	15 - .1	65 + 3.7	15 + 8.5
16 + 0	66 + 7.4	16 - .1	66 + .5	16 + 13.9
17 + 0	67 + 7.6	17 - .1	67 + 8.5	17 + 25.6
18 - 4.7	68 + 8.5	18 - .1	68 + 13.1	18 + 4.9
19 + 0	69 + 8.9	19 - .1	69 + 13.3	19 + 9.9
20 + 0	70 + 7.7	20 - .1	70 + 7.6	20 + .1
21 + 0	71 + 7.9	21 - .1	71 + 7.6	21 + 3.4
22 + 0	72 + 8.4	22 - .1	72 + 7.9	22 + 3.5
23 + 0	73 + 9.0	23 - .1	73 + 8.7	23 + 10.5
24 + 0	74 + 9.3	24 - .1	74 + .6	24 + 14.7
25 - 3.5	75 + 9.6	25 - .1	75 + 1.0	25 + .2
26 + 0	76 + 9.7	26 - .1	76 + 4.1	26 + 13.9
27 + 0	77 + 10.0	27 - .1	77 + 7.5	27 + 14.3
28 + 0	78 + 10.3	28 - .1	78 + 8.6	28 + 4.5
29 + 0	79 + 10.4	29 - .1	79 + 9.4	29 + 3.9
30 + 0	80 + 10.5	30 - .1	80 + 9.9	30 + .1
31 + 0	81 + 10.6	31 - .1	81 + 10.1	
32 - 2.5	82 + 10.9	32 - .1	82 + 10.3	Seq. 5
33 + 0	83 + 10.3	33 - .1	83 + 10.5	
34 + 0	84 + 6.4	34 - .1	84 + 10.8	
35 + 0	85 + 10.0	35 - .1	85 + 11.0	
36 + 0	86 + 10.6	36 - .1	86 + 11.1	
37 + 0	87 + 11.0	37 - .1	87 + 14.7	
38 + 0	88 + 1.4	38 - .1	88 + 11.0	
39 - 2.6	89 + 10.2	39 - .1	89 + 12.3	
40 + .1	90 + 10.7	40 - .1	90 + 11.6	
41 + 0	91 + 10.9	41 - .1	91 + 11.7	
42 + 0	92 + .1	42 - .1	92 + 10.4	
43 + 0	93 + 11.3	43 - .1	93 + 11.6	
44 + 0	94 + 10.5	44 - .1	94 + 11.7	
45 + 0	95 + 11.5	45 - .1	95 + 1.7	
46 + 0	96 + 11.6	46 - .1	96 + 11.7	
47 + 0	97 + 8.7	47 - .1	97 + 11.8	
48 + 0	98 + .1	48 - .1	98 + 11.8	
49 + 0	99 + .1	49 - .1	99 + 11.8	
50 + 0	100 + .1	50 - .1	100 + .1	

2666	.10	0°	.03	0	10.0	$+2.5^\circ$	1.048	2053.0	.002350
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a) 1 - .1	51	.2	b) 1 + 0	51	.1	c) 1 + .1
2 - .1	52	.3.9	2 + 0	52	.4.4	2 + 15.6
3 - .1	53	.5.1	3 + 0	53	.4.5	3 + 10.9
4 - 5.6	54	.18.3	4 + 0	54	.4.3	4 + 6.1
5 - 4.0	55	.18.5	5 + 0	55	.2.7	5 + 3.8
6 + 0	56	.16.4	6 + 0	56	.4.8	6 + 16.9
7 - .1	57	.16.8	7 + 0	57	.13.9	7 + 24.3
8 - .1	58	.17.1	8 + 0	58	.17.6	8 + 29.2
9 - .1	59	.17.3	9 + 0	59	.21.0	9 + 25.3
10 + 6.9	60	.17.5	10 + 0	60	.21.8	10 + 10.9
11 - 5.1	61	.17.6	11 + 2.3	61	.22.6	11 + 17.6
12 - .9	62	.17.0	12 + 0	62	.21.8	12 + 8.4
13 + 0	63	.17.2	13 + 0	63	.23.0	13 + .6
14 + 0	64	.17.5	14 + 3.2	64	.4.8	14 + 4.2
15 + 0	65	.17.8	15 + 0	65	.9.9	15 + 7.0
16 + 0	66	.17.7	16 + .1	66	.2	16 + 24.3
17 + 0	67	.17.7	17 + 0	67	.12.7	17 + 32.3
18 - 5.9	68	.17.9	18 + 0	68	.21.3	18 + 10.5
19 + 0	69	.18.1	19 + 0	69	.25.4	19 + 2.1
20 - .1	70	.17.5	20 + 0	70	.22.5	20 + .1
21 - .1	71	.17.8	21 + 0	71	.19.2	21 + 11.1
22 - .1	72	.18.1	22 + 0	72	.9.2	22 + 5.0
23 - .1	73	.18.3	23 + 0	73	.19.6	23 + .1
24 - .1	74	.18.0	24 + 3.4	74	.3.3	24 + .3
25 - 9.3	75	.18.9	25 + 0	75	.5.9	25 + 8.5
26 - .1	76	.19.2	26 + 0	76	.10.4	26 + 19.9
27 - .1	77	.19.3	27 + 0	77	.1.6	27 + 26.8
28 - .1	78	.18.2	28 + 0	78	.22.8	28 + 10.9
29 - .1	79	.20.0	29 + 0	79	.23.8	29 + 1.6
30 - .1	80	.20.2	30 + 0	80	.21.8	30 + .1
31 - .1	81	.20.3	31 + 0	81	.19.1	
32 - 9.9	82	.20.3	32 + 0	82	.19.4	Seq. 5
33 - 0	83	.21.1	33 + 0	83	.19.0	
34 - .1	84	.17.5	34 + 0	84	.19.9	
35 - .1	85	.20.5	35 + 0	85	.20.0	
36 - .1	86	.20.7	36 + 0	86	.20.1	
37 - .1	87	.20.9	37 + 0	87	.19.8	
38 - .1	88	.3.4	38 + 0	88	.20.3	
39 - 9.0	89	.15.0	39 + 0	89	.20.1	
40 - .1	90	.23.9	40 + 0	90	.20.1	
41 - .1	91	.23.0	41 + 0	91	.20.5	
42 - .1	92	.2.2	42 + 0	92	.20.0	
43 - .1	93	.19.6	43 + 0	93	.20.4	
44 - .1	94	.20.1	44 + 0	94	.20.4	
45 - .1	95	.20.5	45 + 0	95	.21.2	
46 - .1	96	.20.7	46 + 0	96	.21.2	
47 - .1	97	.17.1	47 + 0	97	.21.2	
48 - .1	98	.2	48 + 0	98	.21.2	
49 - .1	99	.2	49 + 0	99	.21.2	
50 - .1	100	.2	50 + 0	100	.2	

2667	.10	0°	.03	0	10.0	0°	1.048	2053.0	.002350
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a) 1 + .1	51 + .1	b) 1 - .1	51 + .1	c) 1 + .1
2 + .1	52 - 2.6	2 - .1	52 - 2.9	2 +17.8
3 + .1	53 - 3.9	3 - .1	53 - 5.3	3 +10.8
4 - 7.4	54 +21.5	4 - .1	54 - 6.3	4 + 3.4
5 - 4.1	55 +21.7	5 - .1	55 - 8.1	5 + 2.4
6 + 0	56 +21.7	6 - .1	56 - 7.4	6 +11.6
7 + 0	57 +21.7	7 - .1	57 + 6.1	7 +26.3
8 + 0	58 +21.7	8 - .1	58 +17.5	8 +32.8
9 + 0	59 +21.7	9 - .1	59 +21.1	9 +15.4
10 + .7	60 +21.7	10 - .1	60 +21.1	10 + 7.1
11 - 6.6	61 +21.7	11 - 3.6	61 +21.1	11 +17.4
12 - 3.7	62 +21.4	12 - .1	62 +21.0	12 +11.6
13 - 2.8	63 +21.4	13 + 0	63 +21.0	13 + 3.4
14 + 0	64 +21.5	14 - 5.5	64 - 7.9	14 +10.0
15 + 0	65 +21.6	15 - .1	65 - 8.8	15 +13.9
16 + 0	66 +21.3	16 - .1	66 + .1	16 +27.3
17 + 0	67 +21.3	17 - .1	67 +13.5	17 +35.0
18 - 9.6	68 +21.5	18 - .1	68 +24.3	18 +18.4
19 - 4.2	69 +21.6	19 - .1	69 +24.3	19 +12.2
20 + 0	70 +21.6	20 - .1	70 +23.6	20 + .1
21 + 0	71 +21.7	21 - .1	71 +23.1	21 +16.4
22 + 0	72 +21.8	22 - .1	72 -23.1	22 +10.9
23 + 0	73 +21.9	23 - .1	73 +23.1	23 + 3.1
24 + 0	74 +21.7	24 - 2.9	74 - 4.4	24 + 2.0
25 - 7.8	75 +21.9	25 - .1	75 + 6.3	25 +11.9
26 + 0	76 +22.1	26 - .1	76 - .6	26 +26.5
27 + 0	77 +22.3	27 - .1	77 +13.3	27 +27.7
28 + 0	78 +22.5	28 - .1	78 +24.5	28 +16.2
29 + 0	79 +22.6	29 - .1	79 +24.5	29 + 6.5
30 + 0	80 +22.9	30 - .1	80 +24.5	30 + .1
31 + 0	81 +23.1	31 - .1	81 +22.1	
32 - 7.2	82 +23.3	32 - .1	82 +22.3	Seq. 5
33 - 4.0	83 +22.8	33 - .1	83 +22.4	
34 + .1	84 +20.3	34 - .1	84 +22.6	
35 + .1	85 +22.1	35 - .6	85 +22.7	
36 + .1	86 +22.6	36 - 1.1	86 +22.9	
37 + .1	87 +23.1	37 + 0	87 +23.0	
38 + .1	88 - 3.2	38 + 0	88 +23.0	
39 - 7.2	89 +19.3	39 + 0	89 +23.0	
40 + 0	90 +25.0	40 + 0	90 +23.1	
41 + 0	91 +24.9	41 + 0	91 +23.0	
42 + 0	92 + 4.5	42 + 0	92 +22.6	
43 + 0	93 +22.3	43 - .1	93 +25.2	
44 + 0	94 +22.9	44 - .1	94 +25.2	
45 + 0	95 +23.3	45 - .1	95 +25.2	
46 + 0	96 +23.6	46 - .1	96 +23.8	
47 + 0	97 +21.8	47 - .1	97 +23.8	
48 + 0	98 + .2	48 - .1	98 +23.8	
49 + 0	99 + .1	49 - .1	99 +23.8	
50 + 0	100 + .1	50 - .1	.100 + .2	

2668	.10	0°	.03	0	10.0	-2.5°	1.048	2053.0	.002350
a) 1	- .1	51 + .2		b) 1	+ 0	51 + .2		c) 1	+ .1
2	- .1	52 - 5.6		2	+ 0	52 - 2.9		2	+ 13.6
3	- .1	53 - 5.9		3	+ 0	53 - 4.1		3	+ 5.3
4	- 8.6	54 + 15.4		4	+ 0	54 - 4.1		4	+ 1.3
5	+ 0	55 + 24.0		5	+ 0	55 - 7.5		5	+ 1.5
6	+ 0	56 + 20.5		6	+ 0	56 - 10.2		6	+ 8.3
7	+ 0	57 + 20.3		7	+ 0	57 - 19.4		7	+ 22.1
8	+ 0	58 + 18.9		8	+ 0	58 + 17.1		8	+ 28.5
9	- .1	59 + 21.2		9	+ 0	59 + 26.4		9	+ 15.2
10	+ .8	60 + 21.1		10	+ 0	60 + 24.8		10	+ 6.6
11	- 7.2	61 + 20.8		11	- 2.9	61 + 21.3		11	+ 15.3
12	- .1	62 + 20.1		12	+ 0	62 + 21.1		12	+ 12.3
13	- .1	63 + 22.2		13	+ 0	63 + 21.5		13	+ 2.5
14	- .1	64 + 24.3		14	- 2.8	64 - 4.6		14	+ 6.1
15	- .1	65 + 24.0		15	+ 0	65 - 9.0		15	+ 11.4
16	- .1	66 + 21.3		16	+ 0	66 + 2.5		16	+ 24.3
17	- .1	67 + 20.8		17	+ 0	67 + 22.8		17	+ 32.9
18	- 6.7	68 + 25.0		18	+ 0	68 + 26.5		18	+ 16.5
19	- .1	69 + 24.4		19	+ 0	69 + 26.0		19	+ 2.4
20	- .1	70 + 26.4		20	+ 0	70 + 19.5		20	+ .1
21	- .1	71 + 20.5		21	+ 0	71 + 18.8		21	+ 19.3
22	- .1	72 + 20.5		22	+ 0	72 + 18.8		22	+ 12.1
23	- .1	73 + 20.5		23	+ 0	73 + 18.8		23	+ 5.2
24	- .1	74 + 20.5		24	- 1.1	74 - 1.5		24	+ 3.1
25	- 6.4	75 + 19.8		25	+ .1	75 + 3.0		25	+ 17.0
26	+ 0	76 + 20.0		26	+ .1	76 + 12.9		26	+ 25.8
27	+ 0	77 + 23.2		27	+ .1	77 + 19.1		27	+ 24.6
28	+ 0	78 + 23.2		28	+ .1	78 + 23.1		28	+ 23.3
29	- .1	79 + 23.2		29	+ .1	79 + 24.6		29	+ 15.5
30	- .1	80 + 23.2		30	+ 0	80 + 25.8		30	+ .1
31	- .1	81 + 25.0		31	+ 0	81 + 24.6			
32	- 5.1	82 + 25.0		32	+ 0	82 + 24.4		Seq.	5
33	- .8	83 + 22.6		33	+ 0	83 + 24.3			
34	- .1	84 + 18.3		34	+ 0	84 + 25.8			
35	- .1	85 + 23.3		35	+ 0	85 + 25.5			
36	- .1	86 + 23.2		36	- 2.4	86 + 25.3			
37	- .1	87 + 23.2		37	+ .1	87 + 29.8			
38	- .1	88 + 2.9		38	+ 0	88 + 20.2			
39	- 4.2	89 + 16.2		39	+ 0	89 + 20.5			
40	+ 0	90 + 24.4		40	+ 0	90 + 20.9			
41	- .1	91 + 24.5		41	+ 0	91 + 21.0			
42	- .1	92 + 4.4		42	+ 0	92 + 18.9			
43	- .1	93 + 20.7		43	+ 0	93 + 24.6			
44	- .1	94 + 21.0		44	+ 0	94 + 24.5			
45	- .1	95 + 21.2		45	+ 0	95 + 24.5			
46	- .1	96 + 21.3		46	+ 0	96 + 20.7			
47	- .1	97 + 17.3		47	+ 0	97 + 20.9			
48	- .1	98 + .2		48	+ 0	98 + 20.9			
49	- .1	99 + .2		49	+ 0	99 + 21.1			
50	- .1	100 + .1		50	+ 0	100 + .1			

13.

FOR ERRATA

AD 414 236

THE FOLLOWING PAGES ARE CHANGES

TO BASIC DOCUMENT

414236

AD-414 236

Contract is corrected to read Nonr-20103

AD 414236

END CHANGE PAGES